

Kupuj tylko przez Meratronik S.A.!

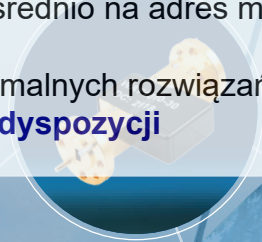
W niniejszym katalogu zamieszczone są linki do produktów na stronach producenta. Zachęcamy jednak do bezpośrednich zakupów przez Meratronik S.A. Poniżej szereg korzyści:

- Ekspresowe pozyskiwanie ofert
- Procedury celne po naszej stronie
- Odroczone termin płatności
- Ciągła dostępność ponad 40 000 elementów
- Obsługa gwarancyjna i pogwarancyjna realizowana przez Meratronik S.A.
- Najniższy koszt transportu
- Dostawa już od 5 dni roboczych

Jak zamawiać?

- Wyszukaj interesujące Cię urządzenia lub akcesoria na stronie producenta lub w katalogu
- Skontaktuj się z nami przez zakładkę **"zapytaj o produkt"** znajdującą się na www.meratronik.pl przy każdej kategorii produktowej lub pisząc bezpośrednio na adres mailowy jm@meratronik.pl
- Chcesz zlecić nam dobór optymalnych rozwiązań?

Jesteśmy do Twojej dyspozycji



2022
RF Product Guide

Analog Phase Shifter



Connector	Gender	Frequency Range (MHz.)	Deg. Phase Adjustment per GHz	Max. Insertion Loss (dB)	Model No	1	2-4	5-9	10+	ROW
SMA	Female	5,000 - 18,000	40	12	PE82P2000	\$6,482.18	\$6,222.89	\$5,963.61	\$5,704.32	22
		6,000 - 15,000	120	10	PE82P2001	\$5,991.26	\$5,751.61	\$5,511.96	\$5,272.31	23

POWER DIVIDERS

50 Ohm



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
2 WAY	0-67,000	1.85mm	Female	0.5 Watt	PE20DV1057	\$3,532.26	See Web for Volume Pricing			24
	350-6,000	SMA			PE20DV1053	\$299.50				25
	2,000-18,000	N		PE20DV1049	\$670.12	26				
		SMA		PE20DV1044	\$359.40	27				
				PE20DV1045	\$140.17	28				
4,000-8,000	1.85mm	PE20DV1073		\$2,618.82	29					
10,000-65,000		PE20DV1050		\$471.71	30					
4 WAY	375-6,000	N		PE20DV1051	\$326.61	31				
	1,000-4,000	SMA		PE20DV1046	\$209.66	32				
	2,000-4,000			PE20DV1047	\$218.22	33				
	4,000-8,000		PE20DV1048	\$479.20	34					
6,000-18,000	PE20DV1052		\$627.29	35						
8 WAY	5-500	N								

Reactive



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing			ROW	
2 WAY	2-500	BNC	Female	1 Watt	PE2000	\$260.84	See Web for Volume Pricing			36	
		N			PE2044	\$566.29				37	
		SMA			PE2070	\$553.04				38	
	10-1,000	N			PE2047	\$560.44				39	
		7/16 DIN		N	300 Watt	PE20DV1041				\$211.44	40
	10 Watt				PE2032	\$654.82				41	
	500-1,000	N		SMA	30 Watt	PE20DV019				\$131.73	42
					20 Watt	PE20DV009				\$235.33	43
	500-2,000	10 Watt			PE20DV007	\$129.03				44	
	698-2,700	20 Watt			PE20DV008	\$119.99				45	
	800-2,400	30 Watt	PE20DV014		\$131.73	46					
	1,000-2,000	20 Watt	PE20DV013		\$235.33	47					
	1,000-4,000	30 Watt	PE20DV016		\$131.73	48					
	2,000-4,000		PE20DV000		\$290.13	49					
	2,000-8,000		PE20DV005		\$409.43	50					
	2,000-18,000		PE2028		\$634.23	51					
	7,000-12,400	N	Male	10 Watt	PE2081	\$425.26				52	
	8,000-12,400			PE2036	\$736.65	53					
	3 WAY	10,000-40,000	2.92mm	Female	10 Watt	PE2078				\$2,127.32	54
						12 Watt				PE2077	\$1,886.44
10 Watt						PE2079A	\$2,340.31	56			
10,000-50,000		2.4mm	10 Watt		PE2037	\$1,041.36	57				
			500 Watt		PE20DV1040	\$289.43	58				
12,000-18,000		N	SMA		30 Watt	PE20DV017	\$215.99	59			
376-2,200						PE20DV001	\$363.06	60			
2,000-4,000											
2,000-8,000											

Reactive



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing	R O W	
4 WAY	2-500	BNC	Female	1 Watt	PE2001	\$466.91	See Web for Volume Pricing	61	
	10-1,000	N		10 Watt	PE2004	\$744.17		62	
	500-1,000	SMA		30 Watt	PE2038	\$1,036.35		63	
	500-2,000			20 Watt	PE20DV020	\$209.35		64	
	800-2,500	N		10 Watt	PE20DV010	\$251.49		65	
	1,000-2,000	SMA		30 Watt	PE20DV012	\$149.39		66	
	2,000-4,000	N		SMA	10 Watt	PE2039		\$1,083.18	67
					30 Watt	PE20DV015		\$209.35	68
					30 Watt	PE2040		\$1,039.74	69
					30 Watt	PE20DV018		\$201.50	70
2,000-8,000	SMA	30 Watt	PE20DV002	\$368.68	71				
2,000-18,000		30 Watt	PE20DV006	\$864.51	72				
6 WAY	1-175	BNC	1 Watt	PE2006	\$665.52	73			
8 WAY	2,000-8,000	SMA	30 Watt	PE20DV003	\$496.86	74			
	500-2,000		30 Watt	PE20DV011	\$310.67	75			
12 WAY	2,000-8,000	SMA	30 Watt	PE20DV004	\$683.98	76			
			1 Watt	PE2005	\$894.99	77			

Resistive



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
2 WAY	0-6,000	SMA	Male	2 Watt	PE2082	\$335.55	See Web for Volume Pricing	78
	0-12,400	2.92mm		1 Watt	PE2063	\$514.26		79
		SMA		1 Watt	PE2067	\$496.42		80
	0-18,000	2.92mm		Female	1 Watt	PE2064		\$595.90
		N	Male	1 Watt	PE2066	\$554.40		82
		SMA	Female	1 Watt	PE2084	\$368.04		83
			Male	1 Watt	PE2068	\$544.82		84
	0-26,500	2.92mm	Female	1 Watt	PE2083	\$750.05		85
	0-50,000	2.4mm	Male	1 Watt	PE2065	\$784.16		86
			Female	0.5 Watt	PE20DV1056	\$2,020.46		87

Wilkinson



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
2 WAY	10-1,000	BNC	Female	1 Watt	PE2003	\$493.05	See Web for Volume Pricing	88
	500-1,000	SMA		10 Watt	PE2008	\$411.17		89
	500-2,000			30 Watt	PE20S0022	\$442.24		90
	617-2,700	4.1/9.5 Mini DIN		30 Watt	PE20DV1033A	\$314.42		91
		N		30 Watt	PE20DV1032A	\$276.40		92
	690-2,700	SMA		10 Watt	PE2092	\$146.88		93
				10 Watt	PE2088	\$125.42		94
	800-2,500	N		50 Watt	PE20S0025	\$474.68		95
		SMA		10 Watt	PE2074	\$298.34		96
	1,000-2,000	N		50 Watt	PE2033	\$681.02		97
		SMA		10 Watt	PE2011	\$377.65		98
	1,000-26,500	2.92mm		20 Watt	PE20DV1058	\$1,009.68		99
	1,000-40,000			20 Watt	PE20DV1059	\$1,620.34		1
	2,000-4,000	N		10 Watt	PE2034	\$607.07		2
				10 Watt	PE2014	\$317.40		3
	2,000-8,000	SMA		10 Watt	PE2026	\$431.94		4
	2,000-40,000			2.92mm	20 Watt	PE20DV1060		\$1,346.60

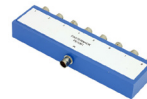
Wilkinson



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing		ROW	
2 WAY	4,000-8,000	N	Female	30 Watt	PE2035	\$712.78	See Web for Volume Pricing		6	
		SMA	Male	10 Watt	PE2080	\$436.56			7	
	6,000-40,000	2.92mm			20 Watt	PE20DV1061			\$1,234.30	8
					10 Watt	PE2020			\$417.44	9
	8,000-18,000	SMA			10 Watt	PE2027			\$717.36	10
					20 Watt	PE20DV1062			\$1,121.98	11
	12,000-18,000	SMA			10 Watt	PE2023			\$456.66	12
					20 Watt	PE20DV1063			\$672.74	13
	15,000-26,500	2.92mm			20 Watt	PE20DV1064			\$1,187.97	14
					10 Watt	PE20DV1065			\$897.36	15
3 WAY	690-2,700	N	Female	10 Watt	PE2093	\$235.95	See Web for Volume Pricing		16	
		SMA			PE2090	\$222.58			17	
	698-2,700	N			PE20DV1034A	\$319.88			18	
4 WAY	800-2,500	SMA	Female	30 Watt	PE20S0019	\$530.12	See Web for Volume Pricing		19	
	500-1,000				PE2009	\$546.03			20	
	500-2,000	PE20S0024		\$526.11	21					
	690-2,700	N		10 Watt	PE2094	\$276.13			22	
		SMA			PE2089	\$245.30			23	
	698-2,700	N		30 Watt	PE20DV1036A	\$506.65			24	
		SMA			PE20S0020	\$446.63			25	
	800-2,500	SMA			10 Watt	PE2012			\$561.56	26
	1,000-2,000					PE2031			\$645.78	27
	2,000-8,000					PE2029			\$1,204.55	28
	2,000-18,000					PE20DV1067			\$1,121.98	29
	2,000-26,500	N			10 Watt	PE2041			\$931.64	30
	4,000-8,000					PE20DV1068			\$1,458.92	31
	6,000-40,000	SMA			10 Watt	PE2021			\$561.77	32
7,000-12,400	2.92mm		20 Watt	PE20DV1069	\$1,346.60	33				
18,000-40,000	SMA		30 Watt	PE20S0023	\$613.59	34				
500-2,000				PE2095	\$453.58	35				
8 WAY	690-2,700	N	Female	10 Watt	PE2091	\$310.74	See Web for Volume Pricing		36	
		SMA			PE20DV1039A	\$869.29			37	
	698-2,700	4.1/9.5 Mini DIN		30 Watt	PE20DV1038A	\$741.18			38	
		N			PE20S0021	\$701.98			39	
	800-2,500	SMA								40

75 Ohm

Reactive



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing		ROW
2 WAY	2-500	BNC	Female	1 Watt	PE2048	\$528.95	See Web for Volume Pricing		40
	10-1,000				PE2062	\$261.60			41
4 WAY	2-500				PE2049	\$474.62			42
					PE2061	\$783.79			43

See Our Website For Current Pricing & Real-Time Stock Availability!

Power Dividers & RF Combiners

RF COMBINERS

Broadband



See Our Website For Current Pricing & Real-Time Stock Availability!

Frequency Range (GHz)	Ports	Connector 1	Connector 2	Power Rating	Isolation (dB)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
20 MHz - 1	2	N Female	N Female	500 W	10	PE20S0004	\$2,539.19	See Web for Volume Pricing	44
		SMA Female	SMA Female	100 W	15	PE20S0001	\$1,272.16		45
80 MHz - 1	4	N Female	N Female	300 W	12	PE20S0003	\$2,643.43		46
		SMA Female	SMA Female	200 W		PE20S0002	\$1,786.72		47
500 MHz - 2.5	2	N Female	N Female	500 W	-12	PE20S0006	\$2,653.59		48
		SMA Female	SMA Female	200 W		PE20S0005	\$1,786.72		49
800 MHz - 2.5	2	N Female	N Female	600 W	13	PE20S0007	\$1,837.63		50
		SMA Female	SC Female	800 W	8	PE20S0011	\$2,388.24		51
800 MHz - 4.2	4	N Female	N Female	800 W	10	PE20S0010	\$2,459.00		52
		SMA Female	N Female	200 W	10	PE20S0012	\$2,420.41		53
800 MHz - 2.5	4	N Female	N Female	600 W	6	PE20S0009	\$2,564.17		54
		SMA Female	N Female	200 W	8	PE20S0013	\$2,379.01		55
800 MHz - 4.2	4	N Female	N Female	200 W	12	PE20S0008	\$2,103.00		56
		SMA Female	SMA Female	100 W	6	PE20S0014	\$1,992.08		57
1 - 6	2	N Female	N Female	400 W	12	PE20S0015	\$844.54		58
		SMA Female	SMA Female	100 W	10	PE20S0017	\$2,667.62		59
2 - 6	4	N Female	N Female	400 W	10	PE20S0016	\$1,085.59	60	

ROTARY JOINTS



Rotary Joints

Connector A	Connector B	Max. Frequency (MHz.)	Input Power	VSWR	Model No	1-9	10-24	25-49	50+	ROW
SMA	PCB	DC - 6,000	30 WATT	1.15:1	PE1401	\$158.08	\$150.18	\$142.27	\$135.95	61
2.92mm	2.92mm	DC - 18,000		1.4:1	PE1400	\$189.70	\$180.22	\$170.73	\$163.14	62
SMA	SMA				PE1402	\$174.44	\$167.46	\$162.23	\$158.74	63
SMA	SMA				PE1406	\$285.01	Call	Call	Call	64

SURGE PROTECTORS

In-Line Surge Protectors



Surge Protectors

Impedance	Connector	Gender	Frequency Range (MHz.)	Mount Type	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
50 Ohm	4.3-10	Female to Female	698 - 2,700	Bulkhead	500 Watt	PE73SP1051	\$158.39	See Web for Volume Pricing	65
		Female to Male				PE73SP1061	\$190.49		66
		Male to Female	555 - 4,000	Bulkhead	200 Watt	PE73SP1062	\$193.35		67
			698 - 2,700		500 Watt	PE73SP1070	\$136.54		68
50 Ohm	7/16 DIN	Female to Female	100 - 512	None	750 Watt	PE73SP1037	\$175.97		69
			698 - 2,700	Bulkhead	1000 Watt	PE73SP1004	\$154.59		70
		Female to Male	800 - 2,250	Bulkhead	Watt	PE73SP1063	\$117.74		71
			698 - 2,160		500 Watt	PE73SP1008	\$163.84		72
			698 - 2,700		1000 Watt	PE73SP1005	\$154.59		73
					500 Watt	PE73SP1006	\$153.98		74
		Male to Female	100 - 512	None	750 Watt	PE73SP1034	\$173.37	75	
			800 - 2,250	Watt	PE73SP1064	\$117.74	76		
			800 - 2,500	None	300 Watt	PE73SP1017	\$157.71	77	
			DC - 2,400	Bulkhead	50 Watt	PE73SP1040	\$87.52	78	
DC - 2,500	2000 Watt	PE7301-4	\$197.11		79				
50 Ohm	N	Female to Female						80	
									81

In-Line Surge Protectors



Impedance	Connector	Gender	Frequency Range (MHz.)	Mount Type	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
50 Ohm	N	Female to Female	DC - 3,000	Bulkhead	200 Watt	PE7301-3	\$189.69	See Web for Volume Pricing	82
				None	40 Watt	PE73SP1039	\$68.03		83
			DC - 7,000	None	200 Watt	PE7301-1	\$175.88		84
					2000 Watt	PE7301-2	\$182.89		85
			1.5 - 700	Bulkhead	90 Watt	PE73SP1038	\$52.03		86
					500 Watt	PE73SP1027	\$119.72		87
			10 - 1,000	None	3000 Watt	PE73SP1030	\$89.16		88
					2000 Watt	PE73SP1025	\$73.71		89
			40 - 400	Bulkhead	1500 Watt	PE73SP1024	\$81.28		90
					100 Watt	PE73SP1015	\$168.76		91
			100 - 512	None	750 Watt	PE73SP1018	\$168.76		92
					750 Watt	PE73SP1033	\$123.18		93
		125 - 1,000	Bulkhead	750 Watt	PE73SP1035	\$123.18	94		
				500 Watt	PE73SP1022	\$89.16	95		
		400 - 1,200	None	200 Watt	PE73SP1029	\$119.72	96		
				375 Watt	PE73SP1021	\$73.71	97		
		698 - 2,700	Bulkhead	300 Watt	PE73SP1019	\$145.64	98		
				500 Watt	PE73SP1000	\$110.42	99		
		800 - 2,250	None	Watt	PE73SP1065	\$100.70	1		
				300 Watt	PE73SP1010	\$147.82	2		
		1,800 - 6,000	None	300 Watt	PE73SP1013	\$147.82	3		
				10 Watt	PE73SP1014	\$147.82	4		
		2,000 - 6,000	Bulkhead	10 Watt	PE73SP1050	\$112.49	5		
				50 Watt	PE73SP1048	\$64.26	6		
DC - 2,400	Bulkhead	90 Watt	PE73SP1042	\$87.52	7				
		90 Watt	PE73SP1041	\$52.03	8				
DC - 7,000	Bulkhead	500 Watt	PE73SP1001	\$110.42	9				
		500 Watt	PE73SP1002	\$122.04	10				
698 - 2,700	None	500 Watt	PE73SP1003	\$126.95	11				
		10 Watt	PE73SP1049	\$64.26	12				
2,000 - 6,000	None	1500 Watt	PE73SP1028	\$81.28	13				
		750 Watt	PE73SP1036	\$121.36	14				
10 - 1,000	Bulkhead	500 Watt	PE73SP1031	\$89.16	15				
		375 Watt	PE73SP1023	\$73.71	16				
100 - 512	None	Watt	PE73SP1066	\$100.70	17				
		300 Watt	PE73SP1011	\$147.82	18				
125 - 1,000	None	300 Watt	PE73SP1016	\$147.82	19				
		200 Watt	PE73SP1068	\$46.53	20				
800 - 2,500	Bulkhead	200 Watt	PE73SP1067	\$46.53	21				
		200 Watt	PE73SP1069	\$46.53	22				
800 - 2,500	None	300 Watt	PE73SP1016	\$147.82	23				
		2000 Watt	PE73SP1032	\$86.12	24				
800 - 2,500	Bulkhead	2000 Watt	PE73SP1026	\$78.47	24				

Surge Protector Replacement Cartridges



Cartridge For	Maximum Power	Model No	1-24	25-49	50-99	100+	ROW
PE7301	200 Watt	PE7301-200CART	\$35.11	\$33.35	\$31.60	\$30.19	25
	2,000 Watt	PE7301-2000CART	\$31.60	\$30.02	\$28.44	\$27.18	26
PE7139 & PE7140	1,500 Watt	PE7139-CART	\$21.60	\$20.74	\$20.09	\$19.66	27

See Our Website For Current Pricing & Real-Time Stock Availability!

Surge Protectors



Technical Support
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Same-Day Shipping,
Even Custom Cable Assemblies

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Electromechanical Relay Switches

1M Life Cycles



Features:
A: Absorptive
AR: Auto Reset
F: Failsafe
D: Diode
GR: Global Reset
H: Hot Switches
I: Indicators
L: Latching
NO: Normally Open
NT: Non-Terminated
P: Pulse
Latching
R: Reflective
RS: Reset
S: Self Cut Off
T: Terminated
TTL: TTL Logic

Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
8 GHz	SP6T	TNC Female	NO/Non-T	70	0.6	12	50	PE71S6206	\$1,960.27	See Web for Volume Pricing	1
						28		PE71S6207	\$1,960.27		2
10 GHz	SPDT	TNC Female	F/I, TTL, D, Non-T	60	0.6	12	50	PE71S6200	\$1,176.16		3
								PE71S6201	\$1,193.77		4
								PE71S6199	\$1,486.77		5
								PE71S6184	\$1,866.18		6
	SP4T	N Female	NO/I, TTL, D, Non-T			12	160	PE71S6185	\$1,866.18		7
								PE71S6192	\$2,146.22		8
						28	50	PE71S6183	\$1,437.16		9
								PE71S6191	\$1,869.95		10
	SP6T	N Female	NO/I, TTL, D, Non-T			12	160	PE71S6189	\$2,053.24		11
								PE71S6196	\$2,520.34		12
						28	160	PE71S6197	\$2,657.85		13
								PE71S6186	\$1,723.58		14
12.4 GHz	SPDT	N Female	F/I, TTL, D, Non-T	60	0.6	12	160	PE71S6187	\$1,698.16		15
								PE71S6194	\$2,016.27		16
						28	160	PE71S6160	\$1,397.44		17
			PE71S6161		\$1,397.44			18			
			12		50	PE71S6058	\$904.23	19			
						PE71S6059	\$674.65	20			
PE71S6150	\$767.82	21									
			F/Non-T		0.6	12	160	PE71S6158	\$1,063.14		22

Switches

1M Life Cycles

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Switches



Features:
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 Latching
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 TTL: TTL Logic

Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	Row				
12.4 GHz	SPDT	N Female	F/Non-T	60	0.6	28	160	PE71S6159	\$1,063.14	See Web for Volume Pricing	23				
			L/I, TTL, D, S, Non-T		0.5	12	50	PE71S6156	\$1,476.58		24				
			L/S, D, Non-T		0.6	28	160	PE71S6157	\$1,400.19		25				
						12	160	PE71S6164	\$1,653.76		26				
						28	50	PE71S6155	\$1,213.13		27				
						12	160	PE71S6162	\$1,466.43		28				
						28	160	PE71S6163	\$1,411.39		29				
						12	50	PE71S6168	\$1,697.03		30				
			Transfer		TNC Female	F/I, TTL, D, Non-T	F/Non-T	60	0.4		28	160	PE71S6169	\$1,791.99	31
											12	50	PE71S6177	\$1,904.26	32
	12	50		PE71S6204							\$1,643.27	33			
	28	50		PE71S6205							\$1,822.58	34			
	28	50		PE71S6166							\$1,372.19	35			
	N Female	F/Non-T		F/Non-T	F/Non-T	0.4	28		160		PE71S6167	\$1,448.23	36		
							28		160		PE71S6175	\$1,628.08	37		
							12		50		PE71S6202	\$1,456.20	38		
							28		50		PE71S6203	\$1,535.64	39		
							12		160		PE71S6172	\$2,144.00	40		
	N Female	L/I, TTL, S, D, Non-T	L/I, TTL, S, D, Non-T	L/I, TTL, S, D, Non-T	0.4	28	160	PE71S6180	\$2,392.86		41				
						12	50	PE71S6170	\$1,779.93		42				
28						50	PE71S6171	\$1,877.03	43						
12						160	PE71S6178	\$2,033.08	44						
28						160	PE71S6179	\$2,113.54	45						
12						160	PE71S6179	\$2,113.54	46						
18 GHz	SPDT	SMA Female	F/Non-T	70	0.4	12	20	PE71S6326	\$352.09	47					
22 GHz	SPDT	SMA Female	F/T	60	0.6	28	20	PE71S6293	\$1,329.93	48					
			L/S, D, TTL, I, T					PE71S6300	\$1,586.88	49					
			L/S, D, TTL, T					PE71S6298	\$1,493.53	50					
			L/S, D, T					PE71S6306	\$2,475.54	51					
			NO/I, T					PE71S6302	\$2,102.65	52					
			NO/I, TTL, D, T					PE71S6304	\$2,649.03	53					
			NO/T					PE71S6301	\$2,102.65	54					
			L/I, TTL, S, D, T					PE71S6315	\$3,277.82	55					
	SP6T	SMA Female	L/S, D, T			L/I, TTL, S, D, T	28	PE71S6316	\$3,277.82	56					
							12	PE71S6313	\$2,968.40	57					
							28	PE71S6314	\$2,968.40	58					
							12	PE71S6130	\$1,685.30	59					
							28	PE71S6131	\$1,575.03	60					
							12	PE71S6309	\$2,475.49	61					
							28	PE71S6310	\$2,418.24	62					
							26.5 GHz	SPDT	SMA Female	L/S, D, Non-T	50	0.5	12	20	PE71S6098
Transfer	F/Non-T	60	PE71S6110	\$1,017.36	64										
40 GHz	SPDT	2.92mm Female	F/Non-T	50	0.8	28	10	PE71S6103	\$2,280.34	65					
			L/I, TTL, S, D, Non-T	55				PE71S6109	\$4,280.46	66					
			L/S, D, Non-T	50				0.9	12	5	PE71S6106	\$3,367.71	67		
	L/I, TTL, S, D, Non-T		1		28	3	PE71S6140				\$7,546.95	68			
	L/I, TTL, S, D, T						PE71S6319				\$8,557.95	69			
	SP4T		2.92mm Female	L/I, TTL, S, D, T	L/S, D, RS, T	50	1	28	3	PE71S6320	\$8,557.95	70			
PE71S6318		\$7,766.37								71					



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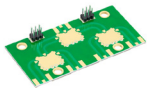
1M Life Cycles



Features:
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Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1	2-4	5-9	10+	R O W	
40 GHz	SP4T	2.92mm Female	L/S, D, T	50	1	12	3	PE71S6317	\$7,766.37	\$7,455.72	\$7,145.06	\$6,834.41	72	
			NO/I, TTL, D, Non-T		0.9	28		PE71S6137	\$4,663.95	\$4,477.39	\$4,290.83	\$4,104.28	73	
	SP6T		L/S, I, RS, T	60	12	PE71S6321		\$8,613.96	\$8,269.40	\$7,924.84	\$7,580.28	74		
			L/S, TTL, I, RS, T		28	PE71S6322		\$8,613.96	\$8,269.40	\$7,924.84	\$7,580.28	75		
	Transfer		2.92mm Female	L/S, D, Non-T	50	12		PE71S6323	\$9,427.95	\$9,050.83	\$8,673.71	\$8,296.60	76	
				NO/Non-T		28		PE71S6324	\$6,593.97	\$6,363.18	\$6,132.39	\$5,934.57	77	
				L/S, D, Non-T		50		12	PE71S6143	\$3,819.43	\$3,666.65	\$3,513.88	\$3,361.10	78
				NO/Non-T				28	PE71S6122	\$3,538.70	\$3,397.15	\$3,255.60	\$3,114.06	79
				L/S, D, Non-T		50		12	PE71S6123	\$3,405.87	\$3,269.64	\$3,133.40	\$2,997.17	80
				NO/Non-T				28	PE71S6123	\$3,405.87	\$3,269.64	\$3,133.40	\$2,997.17	80

2M Life Cycles



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Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
3 GHz	SPDT	SMA Female	L/Non-T	30	0.5	12	600	PE71S8001	\$507.85	See Web for Volume Pricing	81
	SP4T		L/Non-T					PE71S8002	\$640.47		82
10 GHz	SPDT	N Female	F	70	0.5	12	600	PE71S6426	\$777.38		83
12 GHz	SPDT	N Female	F	70	0.5	12	600	PE71S6435	\$984.35		84
			F/I, TTL, Non-T			28	600	PE71S6438	\$777.38		85
			F/Non-T			12	1000	PE71S6460	\$1,335.69		86
			F/Non-T			28	200	PE71S6348	\$749.02		87
	DPDT		F/I, TTL, Non-T	60	0.7	12	1000	PE71S6397	\$458.37		88
			F/Non-T	60	0.7	12	1000	PE71S6398	\$458.37		89
	SP4T		NO	70	0.7	12	600	PE71S6463	\$2,049.68		90
			NO/I, Solder Pins, TTL, Non-T	60	0.5	28	1000	PE71S6462	\$1,763.00	91	
			NO/Solder Pins, Non-T					PE71S6434	\$2,249.79	92	
			NO/I, Solder Pins, TTL, Non-T					PE71S6466	\$3,225.00	93	
F/Non-T	PE71S6464	\$2,773.50	94								
SP6T	N Female	SMA Female	L/I, RS, Non-T	60	0.5	12	200	PE71S6465	\$3,411.33	95	
			L/I, RS, Non-T			28	200	PE71S6385	\$1,122.07	96	
			L/I, RS, Non-T			28	200	PE71S6403	\$821.38	97	
Transfer	N Female	SMA Female	F/Non-T	60	0.7	28	200	PE71S6386	\$1,242.55	98	
			F/TTL, Non-T			28	200	PE71S6386	\$1,242.55	98	
12.4 GHz	SP6T	N Female	L/I, RS, Non-T	60	0.5	12	200	PE71S6072	\$3,839.68	99	
	SP12T	SMA Female	L/S, AR, I, D, T			0.6	28	120	PE71S6073	\$3,524.92	1
18 GHz	SPDT	SMA Female	F	65	0.35	12	90	PE71S6082	\$8,994.73	2	
			F/I, Non-T					PE71S6429	\$368.73	3	
			F/Non-T					PE71S6436	\$272.07	4	
			F/Non-T					PE71S6351	\$367.50	5	
			60	0.5	28	100	PE71S6347	\$291.22	6		
							PE71S6391	\$291.66	7		
							PE71S6392	\$293.10	8		
							PE71S6060	\$1,228.16	9		
65	0.35	28	60	PE71S6354	\$1,226.35	10					
				PE71S6355	\$1,293.26	11					

2M Life Cycles



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Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
18 GHz	SPDT	SMA Female	F/T	65	0.35	28	60	PE71S6404	\$1,168.18	See Web for Volume Pricing	12
			F/TTL, Non-T					PE71S6350	\$445.83		13
			L/TTL, T	60	0.5	28	100	PE71S6063	\$1,536.57		14
	NO/Non-T		PE71S6363					\$1,230.00	15		
	SP4T		NO/Non-T	80	0.4	28	60	PE71S6408	\$879.11		16
			NO/T					PE71S6368	\$2,560.92		17
	SP6T		NO/Non-T					PE71S6369	\$2,660.80		18
			NO/T					PE71S6373	\$1,366.22		19
			NO/TTL, Non-T					PE71S6409	\$1,118.08		20
			NO/T					PE71S6380	\$3,069.67		21
	SP8T		L/I, RS, T	PE71S6381	\$3,069.67	22					
			NO/TTL, Non-T	PE71S6374	\$1,505.46	23					
	SP10T		L/I, RS, T	PE71S6375	\$1,505.46	24					
			NO/Non-T	PE71S6080	\$8,051.13	25					
	SP12T		L/I, RS, T	PE71S6384	\$2,436.56	26					
			F	PE71S6076	\$4,403.10	27					
Transfer	F	60	0.5	28	100	PE71S6083	\$8,921.82	28			
						PE71S6433	\$672.89	29			
	F/Non-T			PE71S6388	\$858.30	30					
				PE71S6389	\$823.93	31					
20 GHz	SP10T	SMA Female	NO/Non-T	70	0.7	28	60	PE71S6400	\$721.37	32	
								PE71S6410	\$3,219.77	33	
26.5 GHz	SPDT	SMA Female	F	50	0.6	28	90	PE71S6419	\$529.84	34	
								PE71S6420	\$454.40	35	
								PE71S6421	\$452.55	36	
								PE71S6430	\$452.55	37	
			F/I, TTL, T			PE71S6468	\$1,467.38	38			
						PE71S6469	\$1,327.63	39			
			F/T			50	PE71S6356	\$1,329.76	40		
							PE71S6357	\$1,310.14	41		
			F/TTL,			90	PE71S6467	\$1,164.23	42		
							PE71S6422	\$609.37	43		
	DPDT		12	PE71S6437	\$558.30	44					
				PE71S6446	\$1,091.13	45					
	SP4T		F/I, TTL, Non-T	PE71S6447	\$1,091.13	46					
				PE71S6472	\$3,250.80	47					
			NO/Solder Pins, Non-T	70	0.7	12	PE71S6452	\$1,505.00	48		
							PE71S6453	\$1,580.25	49		
NO/T		50	PE71S6370	\$3,003.87	50						
			PE71S6371	\$2,891.11	51						
NO/TTL,		28	PE71S6423	\$1,679.88	52						
			PE71S6424	\$1,569.96	53						
SP6T	F/TTL,	50	0.6	12	90	PE71S6427	\$2,691.48	54			
						PE71S6428	\$1,870.52	55			
26.5 GHz	SP6T	NO/I, Solder Pins, TTL, Non-T	70	0.7	28	40	PE71S6079	\$4,796.40	56		
							PE71S6454	\$2,342.89	57		
							PE71S6455	\$2,342.18	58		
							PE71S6382	\$3,209.95	59		
40 GHz	SPDT	2.92mm Female	F/I, TTL, Non-T	60	0.7	12	50	PE71S6383	\$3,209.95	60	
								PE71S6444	\$1,379.58	61	

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Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
40 GHz	SPDT	2.92mm Female	F/Non-T	60	0.7	12	10	PE71S6443	\$1,222.82	See Web for Volume Pricing	62
			L/I, TTL, S, T		0.8	28		PE71S6064	\$3,259.23		63
	DPDT		F/I, TTL, Non-T	50	1	12	5	PE71S6451	\$3,655.00		64
			F/Non-T		28	PE71S6450		\$3,296.68	65		
					12	PE71S6476		\$2,688.93	66		
	SP4T		NO	0.6	90	PE71S6431	\$3,380.00	67			
			NO/I, TTL, + COM, Non-T	1.1	28	PE71S6457	\$5,210.16	68			
				1.3	12	PE71S6456	\$4,429.00	69			
			SP6T	L/I, RS, T	50	1.1	28	PE71S6084	\$5,342.71		70
	L/S, RS, D, Non-T			PE71S6078				\$3,248.60	71		
NO/+ COM, Non-T	60	PE71S6459		\$6,443.31	72						
NO/I, TTL, Non-T	50	1.3		12	PE71S6458	\$4,740.75	73				
Transfer	F	50	0.6	12	90	PE71S6432	\$2,629.30	74			
						50 GHz	SPDT	2.4mm Female	F/Non-T	60	0.3
L/Non-T	1.1	PE71S6330	\$1,576.98	76							

2.5M Life Cycles



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Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
12.4 GHz	Transfer	N Female	F/I, Non-T	60	0.5	28	200	PE71S6070	\$1,086.30	See Web for Volume Pricing	77
18 GHz	Transfer	SMA Female	F/Non-T			60		0.5	28		100
			L/I, Non-T	12	PE71S6066		\$1,039.88		79		
			L/I, S, Non-T	28	PE71S6069		\$1,466.36		80		
			L/I, TTL, S, Non-T		PE71S6067		\$1,184.55		81		
			PE71S6068		\$1,356.89		82				
40 GHz	Transfer	2.92mm Female	L/I, S, Non-T	50	0.8	28	10	PE71S6071	\$2,002.01	83	

5M Life Cycles



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Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
12 GHz	SPDT	N Female	L/I, Non-T	70	0.5	28	200	PE71S6399	\$907.85	See Web for Volume Pricing	84
			L/Non-T			12		PE71S6349	\$823.35		85
			L/TTL			600		PE71S6425	\$1,210.12		86
	DPDT		L/I, S, TTL, Non-T	60	0.7	28	1000	PE71S6461	\$1,990.77		87
			L/Non-T				200	PE71S6387	\$1,106.87		88
							75	PE71S6390	\$858.83		89
Transfer	SMA Female	N Female	L/TTL	60	0.3	12	600	PE71S6439	\$1,362.66	90	
			12					PE71S6353	\$358.17	91	
			28					PE71S6395	\$478.19	92	
18 GHz	SPDT	SMA Female	L/I, Non-T	65	0.35	12	60	PE71S6396	\$546.42	93	

5M Life Cycles



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Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing				ROW	
18 GHz	SPDT	SMA Female	L/I, T	65	0.35	24	60	PE71S6406	\$1,151.64	See Web for Volume Pricing			94		
			L/I, TTL, T					PE71S6407	\$1,334.69				95		
			L/Non-T					PE71S6352	\$328.77				96		
			L/S, I, Non-T					PE71S6393	\$625.11				97		
								PE71S6394	\$458.42				98		
			L/T					PE71S6358	\$1,320.20				99		
	SP3T		L/Non-T	PE71S6362	\$2,026.01	1									
			DP3T	L/I, Non-T	PE71S6405	\$1,528.10	2								
	SP4T			L/T	PE71S6364	\$2,345.52	3								
			SP6T	NO/Non-T	PE71S6365	\$2,345.52	4								
	L/I, S, AR, D, Non-T			PE71S6074	\$1,981.13	5									
				PE71S6077	\$3,125.71	6									
	L/Non-T			PE71S6372	\$2,610.59	7									
				PE71S6376	\$3,237.13	8									
L/T	PE71S6377	\$3,069.67		9											
Transfer	NO/Non-T	PE71S6075	\$2,193.30	10											
	L/I, Non-T	PE71S6402	\$779.15	11											
L/S, I, Non-T	PE71S6401	\$964.84	12												
26.5 GHz	SPDT	SMA Female	L/S, D, Non-T	50	0.6	28	50	PE71S6440	\$658.44	See Web for Volume Pricing			14		
			L/S, I, TTL, Non-T					PE71S6441	\$815.21				15		
								PE71S6442	\$856.00				16		
			L/S, I, TTL, T					PE71S6471	\$1,845.43				17		
	L/S, TTL, T		PE71S6470	\$1,834.25	18										
	L/T		PE71S6360	\$1,337.43	19										
			PE71S6361	\$1,337.43	20										
	DPDT		L/S, D, Non-T	PE71S6448	\$1,316.88	21									
			L/S, I, TTL, Non-T	PE71S6449	\$1,514.43	22									
	SP4T		L/S, I, TTL, Solder Pins, T	PE71S6473	\$3,896.16	23									
				PE71S6474	\$3,896.27	24									
			L/T	PE71S6366	\$2,791.49	25									
				PE71S6367	\$3,003.87	26									
	SP6T		L/I, TTL, Solder Pins, T	PE71S6475	\$3,559.33	27									
L/T		PE71S6378	\$3,209.95	28											
PE71S6379	\$3,209.95	29													
40 GHz	SPDT	2.92mm Female	L/S, I, TTL, Non-T	60	0.7	12	5	PE71S6445	\$1,552.06				30		
	SP4T		L/I, S, RS, T 0.05					80	0.5				PE71S6334	\$7,331.31	31
			L/I, S, TTL, RS, T 0.05										PE71S6342	\$7,771.24	32
	SP6T		L/I, S, RS, T 0.05					PE71S6332	\$7,820.08				33		
			L/I, S, TTL, RS, T 0.05					PE71S6340	\$8,195.19				34		

10M Life Cycles



Features:
 A: Absorptive
 AR: Auto Reset
 F: Failsafe
 D: Diode
 GR: Global Reset
 H: Hot Switches
 I: Indicators
 L: Latching
 NO: Normally Open
 NT: Non-Terminated
 P: Pulse
 Latching
 R: Reflective
 RS: Reset
 S: Self Cut Off
 T: Terminated
 TTL: TTL Logic

Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1	2-4	5-9	10+	ROW
6 GHz	SP6T	SMA Female	NO/Non-T	70	0.3	28	70	PE71S6085	\$1,854.08	\$1,779.92	\$1,705.75	\$1,631.59	35

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Switches



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10M Life Cycles



Features:
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Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
18 GHz	SPDT	SMA Female	F/Non-T	60	0.35	28	100	PE71S6052	\$369.29	See Web for Volume Pricing	36
								PE71S6053	\$366.74		37
			L/I, S, Non-T					PE71S6054	\$562.85		38
								PE71S6055	\$503.81		39
20 GHz	SPDT	SMA Female	L/I, S, Non-T 0.03	65	0.5	24	1	PE71S6335	\$1,561.01	See Web for Volume Pricing	40
								PE71S6337	\$2,263.86		41
			L/I, S, TTL, Non-T 0.03					PE71S6336	\$1,931.33		42
			L/I, S, TTL, T 0.03					PE71S6338	\$2,516.05		43
	SP4T	SMA Female	L/I, S, RS, T 0.03	80	0.6	70		PE71S6333	\$5,223.57		44
			L/I, S, TTL, RS, T 0.03					PE71S6341	\$5,536.99		45
	SP6T	SMA Female	L/I, S, RS, T 0.03	80	0.6	70		PE71S6331	\$5,803.95		46
			L/I, S, TTL, RS, T 0.03					PE71S6339	\$6,152.18		47
26.5 GHz	SP6T	SMA Female	L/GR, Non-T	55	0.6	28	40	PE71S6087	\$2,530.74	See Web for Volume Pricing	48
			NO/TTL, Non-T					PE71S6088	\$2,624.22		49
40 GHz	SPDT	2.92mm Female	F/I, Non-T	50	0.8	28	10	PE71S6056	\$1,343.77	See Web for Volume Pricing	50
			L/I, S, Non-T					PE71S6057	\$995.66		51

Special Applications



Features:
 A: Absorptive
 AR: Auto Reset
 F: Failsafe
 D: Diode
 GR: Global Reset
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 L: Latching
 NO: Normally Open
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 P: Pulse
 Latching Reflective
 RS: Reset
 S: Self Cut Off
 T: Terminated
 TTL: TTL Logic

Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
1 GHz	A/B Coaxial	BNC Female		50	0.7	12	5	PE7100	\$621.38	See Web for Volume Pricing	52
		N Female						PE7102	\$476.47		53
	A/B Coaxial 75 Ohm	BNC Female						PE7103	\$424.67		54
								PE7176	\$824.33		55

SMT Packaged Electromechanical Switches



Features:
 A: Absorptive
 AR: Auto Reset
 F: Failsafe
 D: Diode
 GR: Global Reset
 H: Hot Switches
 I: Indicators
 L: Latching
 NO: Normally Open
 NT: Non-Terminated
 P: Pulse
 Latching Reflective
 RS: Reset
 S: Self Cut Off
 T: Terminated
 TTL: TTL Logic

Max Frequency (GHz)	Switch Type	Connector Type	Features	Min Isolation (dB)	Max IL (dB)	Voltage (V)	RF Power (W CW)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW	
8 GHz	SPDT	SMT	F/H, Non-T	30	0.8	24	35	PE71S6092	\$318.01	See Web for Volume Pricing	56	
								5	PE71S6413		\$326.22	57
									PE71S6414		\$326.22	58
18 GHz			L/H, Non-T	40	1	12	3	PE71S6415	\$429.78	59		
								PE71S6416	\$429.78	60		
26.5 GHz							1.6	12	1	PE71S6418	\$542.88	61
								PE71S6417	\$542.88	62		

*Available SMA Connectorized Application PWB Option. Model PE71S8001 PWB supports connectorized SPDT. Model PE71S8002 PWB supports Connectorized SP4T.

Waveguide Electromechanical Relay Switches, See Page [377](#)

MANUAL SWITCHES

Manual Switches



Impedance	Connector	Gender	Number of Output Ports	Frequency Range (MHz.)	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing		ROW
50 Ohm	N	Female to		DC - 1,300	500 Watt	PE7139	\$261.10	See Web for Volume Pricing		63
						PE7140	\$415.15			64
	SMA			DC - 22,000	50 Watt	PE7SM1000A	\$897.36			65

PIN Diode Switches

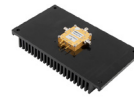
SPST



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Absorptive	10 MHz - 1	80	1.3	200	0.1	Solder Pin	SMA Female	PE71S6230	\$1,830.96	\$1,757.72	\$1,684.48	\$1,611.24	66
	50 MHz - 26.5	30	5	150	0.5			PE71S2008	\$5,973.77	\$5,734.82	\$5,495.87	\$5,256.92	67
	50 MHz - 40	25	7.5		1		2.92mm Female	PE71S2012	\$6,347.90	\$6,093.98	\$5,840.07	\$5,586.15	68
	50 MHz - 67		9.5	0.5	1.85mm Female		PE71S2024	\$8,028.13	\$7,707.00	\$7,385.88	\$7,064.75	69	
	500 MHz - 18	55	3.5	100	SMA Female		PE71S6209	\$2,996.48	\$2,876.62	\$2,756.76	\$2,636.90	70	
	500 MHz - 40		5.5		2.92mm Female		PE71S6214	\$4,343.49	\$4,169.75	\$3,996.01	\$3,822.27	71	
	1 - 2	80	0.9	50	0.1		SMA Female	PE71S6231	\$2,752.66	\$2,642.55	\$2,532.45	\$2,422.34	72
	1 - 18	65	3					PE71S6236	\$4,511.17	\$4,330.72	\$4,150.28	\$3,969.83	73
	2 - 4	75	1.1					PE71S6232	\$2,109.62	\$2,025.24	\$1,940.85	\$1,856.47	74
	2 - 26.5	25	4.5	150	1		2.92mm Female	PE71S2016	\$5,808.26	\$5,575.93	\$5,343.60	\$5,111.27	75
	2 - 40	30	5					PE71S2020	\$5,874.47	\$5,639.49	\$5,404.51	\$5,169.53	76
	4 - 8	75	1.8	50	0.1		SMA Female	PE71S6233	\$2,801.33	\$2,689.28	\$2,577.22	\$2,465.17	77
	8 - 12	70						PE71S6234	\$2,539.71	\$2,438.12	\$2,336.53	\$2,234.94	78
	12 - 18	65	2.8					PE71S6235	\$2,618.48	\$2,513.74	\$2,409.00	\$2,304.26	79
	Reflective	10 MHz - 1	80	1	200		0.1	Solder Pin	SMA Female	PE71S6258	\$1,752.20	\$1,682.11	\$1,612.02
50 MHz - 26.5		20	5	150	1	PE71S2007	\$5,152.69			\$4,946.58	\$4,740.47	\$4,534.37	81
50 MHz - 40		25	6.5		0.5	2.92mm Female	PE71S2011		\$5,525.71	\$5,304.68	\$5,083.65	\$4,862.62	82
50 MHz - 67		20	8.5	0.5	1.85mm Female	PE71S2023	\$6,815.00		\$6,542.40	\$6,269.80	\$5,997.20	83	
500 MHz - 18		55	3	100	0.1	SMA Female	PE71S6220		\$2,766.78	\$2,656.11	\$2,545.44	\$2,434.77	84
500 MHz - 40			5				2.92mm Female		PE71S6225	\$3,229.77	\$3,100.58	\$2,971.39	\$2,842.20
1 - 2		80	0.75	50	0.1	SMA Female	PE71S6259		\$1,870.66	\$1,795.83	\$1,721.01	\$1,646.18	86
1 - 18		65	2.5				PE71S6264		\$2,760.23	\$2,649.82	\$2,539.41	\$2,429.00	87
2 - 4		75	0.85				PE71S6260		\$2,034.96	\$1,953.56	\$1,872.16	\$1,790.76	88
2 - 26.5		20	4.5	150	1	2.92mm Female	PE71S2015		\$4,849.72	\$4,655.73	\$4,461.74	\$4,267.75	89
2 - 40			4				PE71S2019		\$5,040.68	\$4,839.05	\$4,637.43	\$4,435.80	90
4 - 8		75	1.5	50	0.1	SMA Female	PE71S6261		\$2,277.63	\$2,186.52	\$2,095.42	\$2,004.31	91
8 - 12		70	1.8				PE71S6262		\$2,333.65	\$2,240.30	\$2,146.96	\$2,053.61	92
12 - 18		65	2.5				PE71S6263		\$2,408.33	\$2,312.00	\$2,215.66	\$2,119.33	93



SPDT



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Switches

Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	Row	
Absorptive	5 MHz - 2.15	70	2.5	100,000	0.1	D-Sub	F Female	PE71S2043	\$1,432.15	\$1,374.86	\$1,317.58	\$1,260.29	94	
	5 MHz - 3	80	3.5	10,000	1			PE71S2036	\$1,222.80	\$1,173.89	\$1,124.98	\$1,076.06	95	
	10 MHz - 1		1.3	200	0.1	Solder Pin	SMA Female	PE71S6237	\$2,130.20	\$2,044.99	\$1,959.78	\$1,874.58	96	
	20 MHz - 4.3		3	10,000	1	D-Sub		PE71S2035	\$1,222.80	\$1,173.89	\$1,124.98	\$1,076.06	97	
	70 MHz - 26.5	55	5	100	0.5	SMA Female	2.92mm Female	PE71S2010	\$9,473.95	\$9,094.99	\$8,716.03	\$8,337.08	98	
	70 MHz - 40		7					PE71S2014	\$9,758.18	\$9,367.85	\$8,977.53	\$8,587.20	99	
	100 MHz - 67		10.5					PE71S2050	\$8,233.11	\$7,739.12	\$7,327.47	\$6,998.14	1	
	500 MHz - 18	55	3.75	50	0.1	Solder Pin	SMA Female	PE71S6210	\$3,405.96	\$3,269.72	\$3,133.48	\$2,997.24	2	
	500 MHz - 40	60	6					PE71S6215	\$5,897.28	\$5,661.39	\$5,425.50	\$5,189.61	3	
	800 MHz - 2.7	75	0.8					10,000	100	SMA Female	PE71S2041	\$3,837.67	\$3,684.16	\$3,530.66
	1 - 18	65	3.5	100	0.1	SMA Female	PE71S6241	\$3,130.34	\$3,005.13		\$2,879.91	\$2,754.70	5	
	2 - 4	75	1.2				Pin	PE71S6208	\$2,441.30	\$2,343.65	\$2,246.00	\$2,148.34	6	
	2 - 26.5	60	4					SMA Female	PE71S2018	\$8,599.40	\$8,255.42	\$7,911.45	\$7,567.47	7
	2 - 40	55	5.5	100	0.5	2.92mm Female	2.92mm Female		PE71S2022	\$8,961.20	\$8,602.75	\$8,244.30	\$7,885.86	8
	4 - 8	70	1.9					Solder Pin	SMA Female	PE71S6238	\$2,910.54	\$2,794.12	\$2,677.70	\$2,561.28
8 - 12	2.2		PE71S6239							\$4,557.14	\$4,374.85	\$4,192.57	\$4,010.28	10
12 - 18	3.5		PE71S6240	\$2,917.72	\$2,801.01	\$2,684.30	\$2,567.59			11				
Reflective	DC - 6	25	1.3	100	40	SMA Female	SMA Female	PE71S1100	\$3,027.93	\$2,906.81	\$2,785.70	\$2,664.58	12	
	DC - 12		2	150	25			PE71S1105	\$3,190.80	\$3,063.17	\$2,935.54	\$2,807.90	13	
			DC - 18	23	2.3			100	10	PE71S1101	\$2,912.28	\$2,795.79	\$2,679.30	\$2,562.81
	PE71S1106	\$3,075.16				\$2,952.15	\$2,829.15			\$2,706.14	15			
	PE71S1102	\$3,080.04				\$2,956.84	\$2,833.64			\$2,710.44	16			
	10 MHz - 1	80	1.1	200	0.1	Solder Pin	SMA Female	PE71S1107	\$3,242.93	\$3,113.21	\$2,983.50	\$2,853.78	17	
	20 MHz - 500 MHz	50	0.5	40,000	150			PE71S6265	\$1,945.35	\$1,867.54	\$1,789.72	\$1,711.91	18	
	20 MHz - 1	40	0.75	10,000	25			PE71S2039	\$3,465.74	\$3,327.11	\$3,188.48	\$3,049.85	19	
	20 MHz - 2.5	50	1	200	5	Solder Pin	SMA Female	PE71S2040	\$3,465.74	\$3,327.11	\$3,188.48	\$3,049.85	20	
	30 MHz - 530 MHz	60						5	PE71S2042	\$3,113.43	\$2,988.89	\$2,864.36	\$2,739.82	21
	50 MHz - 1.5	4						PE71S2047	\$791.20	Call	Call	Call	22	
	70 MHz - 26.5	30	3.5	100	0.5	SMA Female	2.92mm Female	PE71S2048	\$776.25	Call	Call	Call	23	
	70 MHz - 40		5.5					PE71S2009	\$7,280.98	\$6,989.74	\$6,698.50	\$6,407.26	24	
	100 MHz - 500 MHz	55	0.5	40,000	250	Solder Pin	SMA Female	PE71S2013	\$7,653.99	\$7,347.83	\$7,041.67	\$6,735.51	25	
	500 MHz - 6	35	1.5	250	100	N Female	SMA Female	PE71S2038	\$3,286.45	\$3,154.99	\$3,023.53	\$2,892.08	26	
	500 MHz - 18	55	3.2	100	0.1			PE71S1103	\$3,583.33	\$3,440.00	\$3,296.66	\$3,153.33	27	
	500 MHz - 40		5.5	50	Solder Pin	SMA Female	PE71S1108	\$3,746.22	\$3,596.37	\$3,446.52	\$3,296.67	28		
	1 - 18		65	2.5			1	SMA Female	PE71S6221	\$3,155.11	\$3,028.91	\$2,902.70	\$2,776.50	29
	2 - 4	75	0.9	100	0.5	2.92mm Female			PE71S6226	\$3,543.42	\$3,419.40	\$3,295.38	\$3,189.08	30
	2 - 26.5	30	3				PE71S6269	\$3,006.58	\$2,886.32	\$2,766.05	\$2,645.79	31		
2 - 40	4	PE71S6219	\$2,240.30				\$2,150.69	\$2,061.08	\$1,971.46	32				
4 - 8	70	1.6	0.1	Solder Pin	SMA Female	PE71S2017	\$8,162.23	\$7,835.74	\$7,509.25	\$7,182.76	33			
8 - 12		1.9				PE71S2021	\$8,409.19	\$8,072.82	\$7,736.45	\$7,400.09	34			
12 - 18		2.5				PE71S6266	\$2,520.34	\$2,419.53	\$2,318.71	\$2,217.90	35			
								PE71S6267	\$2,719.52	\$2,610.74	\$2,501.96	\$2,393.18	36	
								PE71S6268	\$2,692.10	\$2,584.42	\$2,476.73	\$2,369.05	37	

SP3T



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Absorptive	10 MHz - 1	60	1.4	200	0.1	Solder Pin	SMA Female	PE71S6242	\$2,296.31	\$2,204.46	\$2,112.61	\$2,020.75	38
	500 MHz - 18	55	3.8	100				PE71S6211	\$4,210.43	\$4,042.01	\$3,873.60	\$3,705.18	39
	500 MHz - 40	60	6	50			SMA Female	PE71S6216	\$6,031.13	\$5,789.88	\$5,548.64	\$5,307.39	40
	1 - 2		1.25					PE71S6243	\$2,505.42	\$2,405.20	\$2,304.99	\$2,204.77	41
	1 - 18	65	3.75	100			PE71S6248	\$3,278.12	\$3,147.00	\$3,015.87	\$2,884.75	42	
	2 - 4	75	1.5				PE71S6244	\$2,669.69	\$2,562.90	\$2,456.11	\$2,349.33	43	
	4 - 8		2.5				PE71S6245	\$3,035.84	\$2,914.41	\$2,792.97	\$2,671.54	44	
	8 - 12	70	2.8				PE71S6246	\$3,619.53	\$3,474.75	\$3,329.97	\$3,185.19	45	
	12 - 18		3.75				PE71S6247	\$3,088.65	\$2,965.10	\$2,841.56	\$2,718.01	46	
	Reflective	10 MHz - 1	60				1	200	0.1	Solder Pin	SMA Female	PE71S6270	\$2,342.84
500 MHz - 18		55	3.2	100	PE71S6222	\$3,528.48	\$3,387.34	\$3,246.20				\$3,105.06	48
500 MHz - 40			5.5	50	SMA Female	PE71S6227	\$5,610.98	\$5,386.54			\$5,162.10	\$4,937.66	49
1 - 2		60	1	PE71S6271		\$2,430.73	\$2,333.50	\$2,236.27			\$2,139.04	50	
1 - 18		65	2.75	100	PE71S6276	\$3,155.47	\$3,029.25	\$2,903.03			\$2,776.81	51	
2 - 4		75	1.2		PE71S6272	\$2,595.03	\$2,491.23	\$2,387.43			\$2,283.63	52	
4 - 8			2		PE71S6273	\$2,804.11	\$2,691.95	\$2,579.78			\$2,467.62	53	
8 - 12		70	2.4		PE71S6274	\$3,830.08	\$3,676.88	\$3,523.67			\$3,370.47	54	
12 - 18			2.75		PE71S6275	\$2,968.40	\$2,849.66	\$2,730.93			\$2,612.19	55	

SP4T



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Absorptive	5 MHz - 2.15	70	2.5	100,000	0.1	D-Sub	F Female	PE71S2044	\$1,959.79	\$1,881.40	\$1,803.01	\$1,724.62	56
	5 MHz - 3		3.5	10,000	1		SMA Female	PE71S2037	\$1,702.13	\$1,634.04	\$1,565.96	\$1,497.87	57
	10 MHz - 1	60	1.5	200	SMA Female		PE71S6249	\$2,580.08	\$2,476.88	\$2,373.67	\$2,270.47	58	
	500 MHz - 18	55	3.8	100			PE71S6212	\$5,453.13	\$5,235.00	\$5,016.88	\$4,798.75	59	
	500 MHz - 40		60	8	50		2.92mm Female	PE71S6217	\$8,940.43	\$8,582.81	\$8,225.20	\$7,867.58	60
	1 - 2	70	1.2	100	Solder Pin		PE71S6250	\$2,823.35	\$2,710.42	\$2,597.48	\$2,484.55	61	
	1 - 18		3.75				PE71S6255	\$3,566.16	\$3,423.51	\$3,280.87	\$3,138.22	62	
	2 - 4		1.5				PE71S6251	\$2,953.48	\$2,835.34	\$2,717.20	\$2,599.06	63	
	4 - 8		2.2				PE71S6252	\$3,155.11	\$3,028.91	\$2,902.70	\$2,776.50	64	
	8 - 12		2.6				PE71S6253	\$3,929.08	\$3,771.92	\$3,614.75	\$3,457.59	65	
12 - 18	3.75		PE71S6254			\$3,326.85	\$3,193.78	\$3,060.70	\$2,927.63	66			
Reflective	DC - 6	25	2	100	40	Solder Pin	SMA Female	PE71S1104	\$4,844.02	\$4,650.26	\$4,456.50	\$4,262.74	67
	10 MHz - 1		60	1.2	200			PE71S1109	\$5,006.90	\$4,806.62	\$4,606.35	\$4,406.07	68
	500 MHz - 18	55	3.2	100	SMA Female		PE71S6277	\$2,505.79	\$2,405.56	\$2,305.33	\$2,205.10	69	
	500 MHz - 40		7.5	50			PE71S6223	\$4,947.35	\$4,749.46	\$4,551.56	\$4,353.67	70	
	1 - 2	60	1	100	SMA Female		PE71S6228	\$7,379.92	\$7,084.72	\$6,789.53	\$6,494.33	71	
	1 - 18	70	3				PE71S6278	\$2,707.41	\$2,599.11	\$2,490.82	\$2,382.52	72	
	2 - 4	75	1.1				PE71S6283	\$3,438.87	\$3,301.32	\$3,163.76	\$3,026.21	73	
	2 - 6		2				50	PE71S6279	\$2,878.79	\$2,763.64	\$2,648.49	\$2,533.34	74
	4 - 8	70	1.8				100	PE71S6280	\$2,781.71	\$2,670.44	\$2,559.17	\$2,447.90	75
	6 - 12		2.5				50	PE71S6285	\$3,080.42	\$2,957.20	\$2,833.99	\$2,710.77	76
8 - 12	70	2.2	100	PE71S6281	\$2,856.39	\$2,742.13	\$2,627.88	\$2,513.62	77				
12 - 18		3		PE71S6282	\$3,177.51	\$3,050.41	\$2,923.31	\$2,796.21	78				
								PE71S6282	\$3,252.17	\$3,122.08	\$2,992.00	\$2,861.91	79

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Switches

SP5T



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Absorptive	100 MHz - 20	65	3.9	75	0.5	Solder Pin	SMA Female	PE71S2045	\$4,680.34	\$4,493.13	\$4,305.91	\$4,118.70	80

SP6T



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Absorptive	100 MHz - 20	65	4.2	75	0.5	Solder Pin	SMA Female	PE71S2046	\$5,195.73	\$4,987.90	\$4,780.07	\$4,572.24	81

SP8T



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Absorptive	100 MHz - 20	65	6	100	0.5	Solder Pin	SMA Female	PE71S2033	\$8,682.25	\$8,334.96	\$7,987.67	\$7,640.38	82
	500 MHz - 18	55	4.5	50	0.1		SMA Female	PE71S6213	\$8,669.76	\$8,322.97	\$7,976.18	\$7,629.39	83
	500 MHz - 40	50	10				2.92mm Female	PE71S6218	\$10,611.63	\$10,187.16	\$9,762.70	\$9,338.23	84
Reflective	500 MHz - 18	55	4	100	0.1	Solder Pin	SMA Female	PE71S6224	\$8,367.25	\$8,032.56	\$7,697.87	\$7,363.18	85
	500 MHz - 40	45	9	50			2.92mm Female	PE71S6229	\$10,377.56	\$9,962.46	\$9,547.36	\$9,132.25	86

SP12T



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Absorptive	100 MHz - 20	65	6	100	0.5	Solder Pin	SMA Female	PE71S2034	\$11,410.95	\$10,954.51	\$10,498.07	\$10,041.64	87

Transfer



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Absorptive	10 MHz - 1	80	1.3	100	2	Solder Pin	SMA Female	PE71S6286	\$3,232.73	\$3,103.42	\$2,974.11	\$2,844.80	88
	1 - 2		1		1			PE71S6287	\$3,901.25	\$3,745.20	\$3,589.15	\$3,433.10	89
	1 - 18	65	3.1		0.5			PE71S6292	\$5,870.86	\$5,636.03	\$5,401.19	\$5,166.36	90
	2 - 4	75	1.2		1			PE71S6288	\$3,626.47	\$3,481.41	\$3,336.35	\$3,191.29	91
	4 - 8		1.9		0.5			PE71S6289	\$3,603.17	\$3,459.04	\$3,314.92	\$3,170.79	92
	8 - 12	70	2.2		0.5			PE71S6290	\$3,812.25	\$3,659.76	\$3,507.27	\$3,354.78	93
	12 - 18	65	3					PE71S6291	\$4,349.92	\$4,175.92	\$4,001.93	\$3,827.93	94

High Isolation PIN Diode Switches



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
SPST	0 - 20	65	6	8.5	Solder Pin	SMA Female	PE71S5001	\$6,916.43	\$6,639.77	\$6,363.12	\$6,086.46	95
SPDT	0 - 18		3	12			PE71S5005	\$7,188.18	\$6,900.65	\$6,613.13	\$6,325.60	96
	0 - 20	35	4	5			PE71S5000	\$4,610.96	\$4,426.52	\$4,242.08	\$4,057.64	97
	1 - 2	90	1	75			Solder Terminals	PE71S5002	\$2,032.59	\$1,951.29	\$1,869.98	\$1,788.68
SP4T	0 - 20	38	3.8		Solder Pin		PE71S5006	\$7,793.23	\$7,481.50	\$7,169.77	\$6,858.04	99
	2 - 6	80	1.8	35	Solder Terminals		PE71S5003	\$2,657.85	\$2,551.54	\$2,445.22	\$2,338.91	1
	6 - 12	75	2.5	40			PE71S5004	\$2,862.58	\$2,748.08	\$2,633.57	\$2,519.07	2

High Isolation USB PIN Diode Switches



Switch Type	Frequency Band (GHz.)	Insertion Loss (dB)	Isolation (dB)	Switching Speed (µs)	Model No	1	2-4	5-9	10+	ROW
USB	0.5 - 18.0	6	60	6,000	PE71S3900	\$3,700.31	\$3,552.30	\$3,404.29	\$3,256.27	3
	0.5 - 40.0				PE71S3901	\$5,047.40	\$4,845.50	\$4,643.61	\$4,441.71	4

GaN High Power Switches



Switch Design	Freq. (GHz.)	Typ Iso (dB)	Typ IL (dB)	Switch Time (ns)	Max Input Power (dB)	TTL Control	Conn. Type	Model No	1	2-4	5-9	10+	ROW
Reflective	DC - 6	33	0.9	100	46	Solder Pin	SMA	PE71S1100	\$3,027.93	\$2,906.81	\$2,785.70	\$2,664.58	5
			PE71S1105					\$3,190.80	\$3,063.17	\$2,935.54	\$2,807.90	6	
		36	1.3		PE71S1104			\$4,844.02	\$4,650.26	\$4,456.50	\$4,262.74	7	
			1.5		PE71S1109			\$5,006.90	\$4,806.62	\$4,606.35	\$4,406.07	8	
	DC - 12	32	1.5	44	PE71S1106		\$3,075.16	\$2,952.15	\$2,829.15	\$2,706.14	9		
					PE71S1101		\$2,912.28	\$2,795.79	\$2,679.30	\$2,562.81	10		
	DC - 18	30	1.3	50	40		PE71S1102	\$3,080.04	\$2,956.84	\$2,833.64	\$2,710.44	11	
					PE71S1107		\$3,242.93	\$3,113.21	\$2,983.50	\$2,853.78	12		
	0.5 - 6	43	1.2	100	50	N Type	PE71S1103	\$3,583.33	\$3,440.00	\$3,296.66	\$3,153.33	13	
							PE71S1108	\$3,746.22	\$3,596.37	\$3,446.52	\$3,296.67	14	



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SYNTHESIZERS



Type	Freq. Band (MHz.)	Typ Ref. Freq. (MHz.)	Ph. Noise @100kHz Offset (dBc/Hz)	Output Power (dBm)	2nd Harmonic	Output Connector	Model No	1	2-4	5-9	10+	R O W
Serial, TTL	2,000 - 6,000	10	-94	14 to 17	-22	SMA Female	PE11S1002	\$10,245.68	\$9,835.85	\$9,426.03	\$9,016.20	1
USB	25 - 6,000	50	-86	-40 to 20	-25		PE11S3901	\$6,584.09	\$6,320.73	\$6,057.36	\$5,794.00	2
	35 - 4,400		-103	-20 to 10	-30		PE11S3900	\$1,910.11	\$1,833.71	\$1,757.30	\$1,680.90	3
	5,000 - 10,000		-72	-15 to 18	-25		PE11S3902	\$7,784.34	\$7,472.97	\$7,161.59	\$6,850.22	4
	10,000 - 20,000		-80	-19 to 18	-15		PE11S3903	\$8,284.00	\$7,994.06	\$7,704.12	\$7,455.60	5
	21,000 - 24,000		-88	-17 to 17	-22		PE11S3904	\$6,173.89	\$5,926.93	\$5,679.98	\$5,433.02	6
	24,000 - 27,000		-75	14 to 17			PE11S3905	\$6,642.30	\$6,376.61	\$6,110.92	\$5,845.22	7

Synthesizers & Oscillators

OSCILLATORS

0.175" Ultra Small Commercial Surface Mount Packaged VCO



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-24	25-49	50-99	100+	ROW
125 - 250	DC - 18	8	5	-107	-10	0.5	3	PE1V21000	Call	Call	Call	Call	8
								PE2V000	\$107.29	\$101.93	\$96.56	\$92.27	9
200 - 400	DC - 5	6	3	-95	-14	4	7	PE1V21001	Call	Call	Call	Call	10
								PE2V001	\$111.57	\$105.99	\$100.41	\$95.95	11
250 - 500	DC - 20	8	5	-107	-8	1	3	PE1V21002	Call	Call	Call	Call	12
								PE2V002	\$107.29	\$101.93	\$96.56	\$92.27	13
500 - 1,000	DC - 19	6	10	-97	-10	4	10	PE1V21003	Call	Call	Call	Call	14
								PE2V003	\$111.57	\$105.99	\$100.41	\$95.95	15
800 - 1,600	DC - 18	11	5	-93	-17	4	20	PE1V21004	Call	Call	Call	Call	16
								PE2V004	\$142.83	\$135.69	\$128.55	\$122.83	17
1,000 - 2,000	DC - 20	10	12	-90	-7	2	20	PE1V21005	Call	Call	Call	Call	18
								PE2V005	\$107.29	\$101.93	\$96.56	\$92.27	19
2,000 - 2,750	DC - 10	11	11	-86	-17	6	22	PE1V21006	Call	Call	Call	Call	20
								PE2V006	\$107.29	\$101.93	\$96.56	\$92.27	21
2,000 - 3,000	DC - 20	9	12	-87	-14	2	24	PE1V21007	Call	Call	Call	Call	22
								PE2V007	\$111.57	\$105.99	\$100.41	\$95.95	23
3,120 - 3,920	DC - 11	8	10	-87	-22	10	22	PE1V21008	Call	Call	Call	Call	24
								PE2V008	\$107.29	\$101.93	\$96.56	\$92.27	25
3,570 - 4,580	DC - 11.5	8	12	-83	-17	4	15	PE1V21009	Call	Call	Call	Call	26
								PE2V009	\$109.92	\$104.42	\$98.93	\$94.53	27
4,400 - 5,000	DC - 4.5	1	5	-85	-17	5	18	PE1V21010	Call	Call	Call	Call	28
								PE2V010	\$107.81	\$102.42	\$97.03	\$92.72	29
4,800 - 5,200	DC - 3	1	3.3	-80	-20	4	25	PE1V21011	Call	Call	Call	Call	30
								PE2V011	\$107.81	\$102.42	\$97.03	\$92.72	31
4,800 - 5,700	DC - 11	8	12	-84	-20	2	20	PE1V21012	Call	Call	Call	Call	32
								PE2V012	\$111.57	\$105.99	\$100.41	\$95.95	33
5,180 - 5,805	DC - 10	6	11	-83	-20	5	25	PE1V21013	Call	Call	Call	Call	34
								PE2V013	\$111.57	\$105.99	\$100.41	\$95.95	35
5,400 - 5,900	DC - 10	8.5	11	-84	-25	5	25	PE1V21014	Call	Call	Call	Call	36
								PE2V014	\$112.62	\$106.99	\$101.36	\$96.85	37
6,100 - 7,000	DC - 10	5.5	5	-76	-30	5	15	PE1V21015	Call	Call	Call	Call	38
								PE2V015	\$109.92	\$104.42	\$98.93	\$94.53	39
7,390 - 8,060	DC - 9	4	5	-75	-22	10	40	PE1V21016	Call	Call	Call	Call	40
								PE2V016	\$111.57	\$105.99	\$100.41	\$95.95	41
8,300 - 9,100	DC - 10	1	5	-73	-25	5	20	PE1V21017	Call	Call	Call	Call	42
								PE2V017	\$111.57	\$105.99	\$100.41	\$95.95	43
9,000 - 10,000	DC - 11	7	12	-78	-30	15	50	PE1V21018	Call	Call	Call	Call	44
								PE2V018	\$111.57	\$105.99	\$100.41	\$95.95	45
10,000 - 11,000	DC - 11	4	12	-72	-40	15	70	PE1V21019	Call	Call	Call	Call	46
								PE2V019	\$111.57	\$105.99	\$100.41	\$95.95	47

0.5" Commercial Surface Mount Packaged VCO



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-24	25-49	50-99	100+	ROW
10 - 20	DC - 20	10	15	-120	-11	0.02	0.05	PE1V11000	\$107.63	\$102.25	\$96.87	\$92.56	48
18 - 30	DC - 12	12	12	-120	-13	0.03	0.07	PE1V11001	\$107.63	\$102.25	\$96.87	\$92.56	49
25 - 50	DC - 15	11.5	15	-120	-12	0.05	0.03	PE1V11002	\$105.06	\$99.81	\$94.55	\$90.35	50
30 - 60	DC - 15	11	15	-119	-14	0.05	0.05	PE1V11003	\$103.09	\$97.94	\$92.78	\$88.66	51
40 - 80	DC - 20	12	15	-117	-14	0.05	0.05	PE1V11004	\$107.63	\$102.25	\$96.87	\$92.56	52
40 - 100	DC - 20	11.5	15	-118	-14	0.2	0.1	PE1V11005	\$103.09	\$97.94	\$92.78	\$88.66	53
50 - 100	DC - 20	12	15	-115	-12	0.05	0.1	PE1V11006	\$105.06	\$99.81	\$94.55	\$90.35	54
60 - 120	DC - 18.5	11	15	-114	-20	0.2	0.1	PE1V11007	\$103.09	\$97.94	\$92.78	\$88.66	55

* Phase Noise measured at 10 KHz offset frequency

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0.5" Commercial Surface Mount Packaged VCO



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-24	25-49	50-99	100+	R O W
75 - 150	DC - 18	11	15	-110	-20	0.2	0.4	PE1V11008	\$105.06	\$99.81	\$94.55	\$90.35	56
100 - 200	DC - 18	11	15	-113	-12	0.2	0.1	PE1V11009	\$103.09	\$97.94	\$92.78	\$88.66	57
150 - 300	DC - 20	11	15	-108	-14	1	2	PE1V11010	\$107.63	\$102.25	\$96.87	\$92.56	58
200 - 400	DC - 20	11	15	-106	-14	0.4	0.2	PE1V11011	\$185.76	\$176.47	\$167.18	\$159.75	59
300 - 400	DC - 9	11	15	-102	-18	0.6	0.5	PE1V11012	\$107.63	\$102.25	\$96.87	\$92.56	60
400 - 600	DC - 15	11	15	-102	-15	1	1.5	PE1V11013	\$103.09	\$97.94	\$92.78	\$88.66	61
400 - 800	DC - 9	8	5	-96	-14	3	1.3	PE1V11014	\$103.09	\$97.94	\$92.78	\$88.66	62
500 - 900	DC - 11.5	12	12	-95	-14	1.5	1.5	PE1V11015	\$103.09	\$97.94	\$92.78	\$88.66	63
600 - 1,000	DC - 20	12.5	15	-96	-15	0.8	0.7	PE1V11016	\$107.11	\$101.75	\$96.40	\$92.11	64
800 - 1,200	DC - 20	11.5	15	-95	-12	0.8	2.5	PE1V11017	\$107.63	\$102.25	\$96.87	\$92.56	65
1,200 - 1,800	DC - 20	11	15	-89	-12	0.5	3	PE1V11018	\$107.63	\$102.25	\$96.87	\$92.56	66
1,350 - 1,650	DC - 18	10	15		-12	1.5		PE1V11019	\$103.09	\$97.94	\$92.78	\$88.66	67
1,500 - 2,100	DC - 18	10	15		-12			PE1V11020	\$103.09	\$97.94	\$92.78	\$88.66	68
1,500 - 2,500	DC - 16	10	15		-12			PE1V11021	\$107.63	\$102.25	\$96.87	\$92.56	69
2,000 - 2,750	DC - 10	7	11		-12			PE1V11022	\$107.63	\$102.25	\$96.87	\$92.56	70
2,570 - 3,300	DC - 10	5	11		-15			PE1V11023	\$107.63	\$102.25	\$96.87	\$92.56	71
3,000 - 3,500	DC - 10	10	11	-81	-16	2.5	12	PE1V11024	\$103.09	\$97.94	\$92.78	\$88.66	72
3,120 - 3,870	DC - 10	5	11		-15			PE1V11025	\$107.63	\$102.25	\$96.87	\$92.56	73
4,000 - 5,000	DC - 15	8	15		-18			PE1V11026	\$107.63	\$102.25	\$96.87	\$92.56	74
4,260 - 5,000	DC - 10	7	11		-18			PE1V11027	\$105.06	\$99.81	\$94.55	\$90.35	75

0.5" Commercial Surface Mount Packaged VCO w/ Integrated Buffer Amps



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-24	25-49	50-99	100+	R O W
510 - 550	DC - 3.5	6.5	5	-106	-22	1.5	0.8	PE1V14000	\$103.09	\$97.94	\$92.78	\$88.66	76
950 - 1,100	DC - 4.5	9	5	-104	-18	0.8	0.3	PE1V14001	\$103.09	\$97.94	\$92.78	\$88.66	77
1,570 - 1,850	DC - 4.5	5	5	-101	-18	1.8	0.2	PE1V14002	\$107.63	\$102.25	\$96.87	\$92.56	78
1,600 - 3,200	DC - 20	6	5	-89	-14	4	10	PE1V14003	\$107.11	\$101.75	\$96.40	\$92.11	79
1,700 - 1,850	DC - 4.5	3.5	5	-100	-40	0.8	0.2	PE1V14004	\$103.09	\$97.94	\$92.78	\$88.66	80
1,800 - 2,000	DC - 4.5	4.5	5	-100	-20	1.5	0.6	PE1V14005	\$103.09	\$97.94	\$92.78	\$88.66	81
1,900 - 2,100	DC - 4.5	4.5	5	-102	-40	3	0.3	PE1V14006	\$103.09	\$97.94	\$92.78	\$88.66	82
2,100 - 2,300	DC - 4.5	4.5	5	-101	-35	2.5	0.3	PE1V14007	\$107.63	\$102.25	\$96.87	\$92.56	83
2,800 - 3,000	DC - 4.5	-2	5	-93	-25	2	0.8	PE1V14008	\$103.09	\$97.94	\$92.78	\$88.66	84
4,130 - 4,350	DC - 8	7.5	8	-98	-30	4	6	PE1V14009	\$103.09	\$97.94	\$92.78	\$88.66	85
4,770 - 5,010	DC - 7.5	5	8	-98	-20	4	4	PE1V14010	\$103.09	\$97.94	\$92.78	\$88.66	86

0.5" Commercial Surface Mount Packaged VCO w/ Low Noise



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-24	25-49	50-99	100+	R O W
305 - 425	DC - 19.5	8	5	-117	-40	1.5	4	PE1V15000	\$103.09	\$97.94	\$92.78	\$88.66	87
850 - 900	DC - 4.5	1.5	5	-113	-45	0.3	0.2	PE1V15001	\$107.11	\$101.75	\$96.40	\$92.11	88

* Phase Noise measured at 10 KHz offset frequency

0.5" Commercial Surface Mount Packaged VCO w/ Modulation Input Port



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-9	10-24	25-49	50+	ROW
130 - 175	DC - 15	6.5	5	-125	-25	0.1	0.2	PE1V12000	\$122.00	\$115.90	\$109.80	\$104.92	89
195 - 240	DC - 15	8.5	5	-125	-15	0.2	0.05	PE1V12001	\$122.00	\$115.90	\$109.80	\$104.92	90
243 - 270	DC - 9.5	10	8	-120	-38	0.05	0.2	PE1V12002	\$126.76	\$120.42	\$114.08	\$109.01	91
260 - 280	DC - 10	8	5	-123	-15	0.1	0.1	PE1V12003	\$122.00	\$115.90	\$109.80	\$104.92	92
380 - 400	DC - 10	4.5	5	-124	-20	0.2	0.1	PE1V12004	\$122.00	\$115.90	\$109.80	\$104.92	93
400 - 430	DC - 10	3.5	5	-123	-25	0.1	0.05	PE1V12005	\$122.00	\$115.90	\$109.80	\$104.92	94
430 - 470	DC - 10	3.5	5	-122	-25	0.2	0.05	PE1V12006	\$122.00	\$115.90	\$109.80	\$104.92	95
465 - 525	DC - 15	3.5	5	-122	-18	0.1	0.2	PE1V12007	\$126.76	\$120.42	\$114.08	\$109.01	96
650 - 700	DC - 10	7.5	8	-121	-25	0.2	0.1	PE1V12008	\$122.00	\$115.90	\$109.80	\$104.92	97

0.5" Hermetically Sealed MIL Grade Surface Mount Packaged VCO



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-9	10-24	25-49	50+	ROW
10 - 20	DC - 20	10	15	-120	-11	0.02	0.05	PE1V13000	\$454.63	\$431.90	\$409.17	\$390.98	98
18 - 30	DC - 12	12	12	-120	-13	0.03	0.07	PE1V13001	\$454.63	\$431.90	\$409.17	\$390.98	99
25 - 50	0.5 - 20	11.5	15	-114	-10	0.1	0.1	PE1V13002	\$454.63	\$431.90	\$409.17	\$390.98	1
30 - 60	DC - 15	11	15	-119	-14	0.05	0.05	PE1V13003	\$454.63	\$431.90	\$409.17	\$390.98	2
40 - 80	DC - 20	12	15	-117	-14	0.05	0.05	PE1V13004	\$454.63	\$431.90	\$409.17	\$390.98	3
40 - 100	DC - 20	11.5	15	-118	-14	0.2	0.1	PE1V13005	\$454.63	\$431.90	\$409.17	\$390.98	4
50 - 100	DC - 20	12	15	-115	-12	0.05	0.1	PE1V13006	\$454.63	\$431.90	\$409.17	\$390.98	5
60 - 120	DC - 18.5	11	15	-114	-20	0.2	0.1	PE1V13007	\$454.63	\$431.90	\$409.17	\$390.98	6
75 - 150	DC - 18	11	15	-110	-20	0.2	0.4	PE1V13008	\$454.63	\$431.90	\$409.17	\$390.98	7
100 - 200	DC - 18	11	15	-113	-12	0.2	0.1	PE1V13009	\$454.63	\$431.90	\$409.17	\$390.98	8
150 - 300	DC - 20	11	15	-108	-14	1	2	PE1V13010	\$454.63	\$431.90	\$409.17	\$390.98	9
200 - 400	DC - 20	11	15	-106	-14	0.4	0.2	PE1V13011	\$479.44	\$455.47	\$431.50	\$412.32	10
400 - 800	DC - 9	8	5	-96	-14	3	1.3	PE1V13012	\$454.63	\$431.90	\$409.17	\$390.98	11
1,200 - 1,800	DC - 20	11	15	-89	-12	0.5	3	PE1V13013	\$454.63	\$431.90	\$409.17	\$390.98	12
3,000 - 3,500	DC - 10	10	11	-81	-16	2.5	12	PE1V13014	\$479.44	\$455.47	\$431.50	\$412.32	13
3,700 - 4,350	DC - 7.5	4	8	-83	-25	6	15	PE1V13015	\$479.44	\$455.47	\$431.50	\$412.32	14

Connectorized Packaged VCO w/ Field Replaceable Connectors

Coaxial Packaged Commercial Standard



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-9	10-24	25-49	50+	ROW
18 - 30	0.5 - 12	12	12	-120	-13	0.03	0.07	PE1V31000	\$395.59	\$375.81	\$356.03	\$340.21	15
25 - 50	0.5 - 15	11.5	15	-120	-12	0.05	0.03	PE1V31001	\$424.09	\$402.89	\$381.68	\$364.72	16
30 - 60	0.5 - 15	11	15	-119	-14	0.05	0.05	PE1V31002	\$424.09	\$402.89	\$381.68	\$364.72	17
40 - 80	0.5 - 20	12	15	-117	-14	0.05	0.05	PE1V31003	\$424.09	\$402.89	\$381.68	\$364.72	18
40 - 100	0.5 - 20	11.5	15	-118	-14	0.2	0.1	PE1V31004	\$408.17	\$387.76	\$367.35	\$351.03	19
50 - 100	0.5 - 20	12	15	-115	-12	0.05	0.1	PE1V31005	\$424.09	\$402.89	\$381.68	\$364.72	20
75 - 150	0.5 - 18	11	15	-110	-20	0.2	0.4	PE1V31007	Call	Call	Call	Call	21
200 - 400	0.5 - 20	11	15	-106	-14	0.4	0.2	PE1V31009	Call	Call	Call	Call	22
400 - 800	0.5 - 13	12	10	-94	-20	0.6	0.7	PE1V31010	Call	Call	Call	Call	23

* Phase Noise measured at 10 KHz offset frequency



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Coaxial Packaged Commercial Standard



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1-9	10-24	25-49	50+	ROW
1,200 - 1,800	0.5 - 20	11	15	-89	-12	0.5	3	PE1V31011	Call	Call	Call	Call	24
230 - 290	0.5 - 4.5	2	12	-107	-8.5			PE1V31015	\$518.30	\$492.39	\$466.47	\$445.74	25
500 - 600	0.5 - 4.5	-2	12	-105	-20			PE1V31016	\$518.30	\$492.39	\$466.47	\$445.74	26
850 - 890	DC - 5	8	12	-99	-5		5	PE1V31018	\$518.30	\$492.39	\$466.47	\$445.74	27
900 - 960	0.5 - 4	5.5	12	-110	-15		5	PE1V31019	\$518.30	\$492.39	\$466.47	\$445.74	28
1,700 - 1,850	0.5 - 4.5	0	12	-96	-15		13	PE1V31023	\$518.30	\$492.39	\$466.47	\$445.74	29
2,300 - 2,450	0.5 - 4.5	3	12	-101	-15		2	PE1V31025	\$518.30	\$492.39	\$466.47	\$445.74	30
2,400 - 2,800	1 - 11	9	12	-92	-10		50	PE1V31026	\$518.30	\$492.39	\$466.47	\$445.74	31
3,200 - 3,400	0.5 - 4.5	5	12	-88	-15		25	PE1V31027	\$518.30	\$492.39	\$466.47	\$445.74	32
1,435 - 1,650	0.5 - 5	7	12	-90	-7		35	PE1V31021	\$518.30	\$492.39	\$466.47	\$445.74	33
1,550 - 1,850	0.25 - 4.75	1.5	12	-99	-20		2	PE1V31022	\$518.30	\$492.39	\$466.47	\$445.74	34
620 - 660	0.5 - 4.5	0	12	-110	-13		2	PE1V31017	\$518.30	\$492.39	\$466.47	\$445.74	35
1,070 - 1,210	0.5 - 4.5	1.5	12	-109	-16		1	PE1V31020	\$518.30	\$492.39	\$466.47	\$445.74	36
2,165 - 2,360	0.5 - 10	5	12	-99	-10		10	PE1V31024	\$518.30	\$492.39	\$466.47	\$445.74	37
4,245 - 4,335	0.5 - 8	0.5	12	-87	-13		10	PE1V31028	\$518.30	\$492.39	\$466.47	\$445.74	38
5,220 - 5,420	0.5 - 4.5	-1	12	-83	-25		10	PE1V31029	\$518.30	\$492.39	\$466.47	\$445.74	39

Hi-REL Hermetic Buffer Amp



Frequency (MHz.)	Tuning Voltage (Vdc)	Output Power Typ (dBm)	Supply Voltage (Vdc)	Phase Noise* (dBc/Hz)	2nd Harmonics Typ (dBc)	Pushing Typ (MHz.)	Pulling Typ (MHz.)	Model No	1	2-4	5-9	10+	ROW
4,000 - 8,000	DC - 18	20	12	-75	-10	0.2	1	PE1V34000	\$5,282.63	\$5,097.74	\$4,912.85	\$4,754.37	40
5,000 - 10,000	DC - 20	20	12	-64	-15	0.2	1	PE1V34001	\$6,095.16	\$5,851.35	\$5,607.55	\$5,363.74	41
38,400 - 43,200	DC - 13	13	5	-74	-30	40	0.01	PE1V34003	\$10,620.59	\$10,195.77	\$9,770.94	\$9,346.12	42

Reference Oscillators



Loop Type	Out Freq (MHz)	Ref. Type	Out Power Typ (dBm)	2nd Harmonics Typ (dBc)	Spurious Typ (dBc)	Ph Noise @100kHz Offset (dBc/Hz)	Package Type	Model No	1 Pc. Price	See Web for Volume Pricing			ROW	
Free Running	10	Internal	+7	-20	-70	-145	Surface Mount	PE19XR1000	\$412.99	See Web for Volume Pricing			43	
							Connectorized	PE19XR1003	\$2,128.44					44
	50					-150	Surface Mount	PE19XR1001	\$427.19					45
							Connectorized	PE19XR1004	\$2,173.29					46
	100					-155	Surface Mount	PE19XR1002	\$501.18					47
							Connectorized	PE19XR1005	\$2,338.84					48

TCXO Oscillators

CMOS



Output Freq. (GHz)	High Level Out Voltage (V min)	Low Level Out Voltage (V max)	Temp Stability (+/- ppm)	Ph Noise @10kHz Offset (dBc/Hz)	Dimensions (in)	Model No	1-4	5-9	10-24	25+	ROW
10	4.9	0.1	2.5	-145	1.25x1.25x 0.563	PE19XL6000	\$769.03	\$730.58	\$692.13	\$661.37	49
20						PE19XL6001	\$729.25	\$692.79	\$656.33	\$627.16	50

Phase Locked Oscillators



Loop Type	Out Freq (MHz)	Ref. Type	Ref. Input Freq. (MHz.)	Out Power Typ (dBm)	2nd Harmonics Typ (dBc)	Spurious Typ (dBc)	Package Type	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
Phase Locked	500	External	10	7	-35	-70	Connectorized	PE19XC7000	\$1,690.59	See Web for Volume Pricing	51
							Surface Mount	PE19XP5004	\$475.25		52
							Connectorized	PE19XC7005	\$1,603.12		53
							Surface Mount	PE19XP5009	\$475.25		54
							Connectorized	PE19XC7001	\$1,690.59		55
							Surface Mount	PE19XP5005	\$475.25		56
	Connectorized		PE19XC7006		\$1,627.12		57				
	Surface Mount		PE19XP5010		\$475.25		58				
	Connectorized		PE19XC7002		\$1,936.29		59				
	Surface Mount		PE19XP5006		\$676.17		60				
	Connectorized		PE19XC7007		\$1,936.29		61				
	Surface Mount		PE19XP5011		\$641.19		62				
	Connectorized	PE19XC7003	\$2,218.56	63							
	Surface Mount	PE19XP5007	\$741.09	64							
	Connectorized	PE19XC7008	\$2,103.78	65							
	Surface Mount	PE19XP5012	\$702.73	66							
	Connectorized	PE19XC7004	\$2,411.20	67							
	Surface Mount	PE19XP5008	\$771.95	68							
Connectorized	PE19XC7009	\$2,411.20	69								
Surface Mount	PE19XP5013	\$771.95	70								

Phase Locked Crystal Oscillators



Loop Type	Out Freq (MHz)	Ref. Type	Ref. Input Freq. (MHz)	Out Power Typ (dBm)	2nd Harmonics Typ (dBc)	Spurious Typ (dBc)	Package Type	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
Phase-Locked Crystal	50	External	10	+7	-20	-70	Surface Mount	PE19XP5000	\$720.05	See Web for Volume Pricing	71
							Connectorized	PE19XP5002	\$2,615.93		72
	Surface Mount						PE19XP5001	\$864.74	73		
	Connectorized						PE19XP5003	\$2,872.10	74		

TAPPERS

Equal Split



Frequency Range (MHz.)	Number of Ports	Maximum Power	Directivity (dB)	Model No	1-9	10-24	25-49	50+	ROW
376-2,200		500 Watt		PE-T1009	\$229.32	\$217.85	\$206.39	\$197.22	75
380-2,500				PE-T1000	\$214.26	\$205.69	\$199.26	\$194.98	76
600-2,700				PE20DV1026	\$224.03	\$212.83	\$201.63	\$192.67	77
				PE20DV1027	\$284.23	\$270.02	\$255.81	\$244.44	78
				PE20DV1028	\$253.92	\$241.22	\$228.53	\$218.37	79
				PE20DV1029	\$322.88	\$306.74	\$290.59	\$277.68	80
		PE20DV1030		\$276.32	\$262.50	\$248.69	\$237.64	81	
		PE20DV1031		\$336.05	\$319.25	\$302.45	\$289.00	82	
700-2,700		PE-T1012		\$214.26	\$205.69	\$199.26	\$194.98	83	
		PE-T1003		\$192.49	\$182.87	\$173.24	\$165.54	84	
		PE-T1010		\$220.07	\$209.07	\$198.06	\$189.26	85	



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Unequal Split



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1-9	10-24	25-49	50+	R O W
350-5,850	5	300 Watt	2	PETP1001	\$261.37	\$248.30	\$235.23	\$224.78	86
	6		3	PETP1002	\$216.56	\$205.73	\$194.90	\$186.24	87
	7		PETP1003	\$261.37	\$248.30	\$235.23	\$224.78	88	
			PE-T2006	\$190.57	\$182.95	\$177.23	\$173.42	89	
			PETP1004	\$228.39	\$216.97	\$205.55	\$196.42	90	
	8		PETP1005	\$261.37	\$248.30	\$235.23	\$224.78	91	
			PE-T2003	\$190.57	\$182.95	\$177.23	\$173.42	92	
			PETP1006	\$216.56	\$205.73	\$194.90	\$186.24	93	
	9		PETP1007	\$261.37	\$248.30	\$235.23	\$224.78	94	
			PETP1008	\$216.56	\$205.73	\$194.90	\$186.24	95	
			PETP1009	\$265.28	\$252.02	\$238.75	\$228.14	96	
	10		PE-T2007	\$277.49	\$263.62	\$249.74	\$238.64	97	
			PETP1010	\$216.56	\$205.73	\$194.90	\$186.24	98	
			13	PE-T2018	\$165.16	\$156.90	\$148.64	\$142.04	99
	PE-T2001			\$183.41	\$176.07	\$170.57	\$166.90	1	
	15			PE-T2015	\$190.75	\$183.12	\$177.40	\$173.58	2
			PETP1012	\$216.56	\$205.73	\$194.90	\$186.24	3	
PETP1013		\$261.37	\$248.30	\$235.23	\$224.78	4			
20	PE-T2000	\$180.70	\$173.47	\$168.05	\$164.44	5			
	PETP1014	\$216.56	\$205.73	\$194.90	\$186.24	6			
	PETP1015	\$261.37	\$248.30	\$235.23	\$224.78	7			
30	PE-T2004	\$180.70	\$173.47	\$168.05	\$164.44	8			
	PETP1016	\$216.56	\$205.73	\$194.90	\$186.24	9			
	PETP1017	\$261.37	\$248.30	\$235.23	\$224.78	10			
380-6,000	6	3	PE-T2014	\$165.16	\$156.90	\$148.64	\$142.04	11	
	7	4	PE-T2011	\$165.16	\$156.90	\$148.64	\$142.04	12	
	8	5	PE-T2012	\$165.16	\$156.90	\$148.64	\$142.04	13	
	9	7	PE-T2010	\$165.16	\$156.90	\$148.64	\$142.04	14	
	11	12	PE-T2025	\$165.16	\$156.90	\$148.64	\$142.04	15	
	20	100	PE-T2017	\$233.49	\$221.82	\$210.14	\$200.80	16	
698-2,700	10	9	PE-T2016A	\$244.64	\$232.41	\$220.18	\$210.39	17	
	30	1000	PE-T2023	\$257.99	\$245.09	\$232.19	\$221.87	18	
700-2,700	5	2	PE-T2013	\$209.75	\$199.26	\$188.78	\$180.39	19	

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Matching pads designed to mate with 50 ohm connectors on one end and 75 ohm connectors on the opposite end are available in a range of connector options.

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RF Coaxial Terminations are available in a number of connector options and frequency ranges. Power ratings for these terminations range from 1/2 watt to 500 watts of continuous power. 50 ohm and 75 ohm options are available as well.

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TERMINATIONS

RF Load

50 Ohm



Max. Power (Watts)	Connector	Maximum Frequency.	Construction Material	VSWR Max.	Chain	Model No	1 Pc. Price	See Web for Volume Pricing	ROW		
0.25 W	Mini SMP Female	18 GHz	Gold Plated Beryllium Copper	1.35:1	No	PE6184	\$55.38	See Web for Volume Pricing	1		
		40 GHz		1.45:1	No	PE6182	\$161.58		2		
0.5 W	2.92mm Male	40 GHz	Passivated Stainless Steel	1.2:1	Yes	PE6086	\$415.02		3		
	No				PE6085	\$298.64	4				
	2.92mm Female	Yes	PE6088	\$454.25	5						
		No	PE6087	\$454.69	6						
	7/16 DIN Male	1,000 MHz	Tri-Metal Plated Brass		No	PE6146	\$135.55		7		
	Mini SMP Male	40 GHz	Gold Plated Beryllium Copper	1.35:1	No	PE6163	\$262.55		8		
	Mini SMP Female		Gold over Nickel Plated Beryllium Copper		No	PE6162	\$298.48		9		
	SMA Male	12.4 GHz	Passivated Stainless Steel	1.17:1	No	PE6002	\$40.56		10		
	SMA Female				Yes	PE6070	\$88.71		11		
	SMP Female		Gold Plated Beryllium Copper	1.35:1	No	PE6183	\$40.62		12		
					18 GHz	No	PE6181		\$109.47	13	
			26.5 GHz	1.3:1	No	PE6236	\$613.86		14		
	1.85mm Male		Passivated Stainless Steel	1.6:1	Yes	PE6235	\$539.79		15		
					No	PE6TR1101	\$400.67		16		
	1.85mm Female				Yes	PE6TR1100	\$380.07		17		
					No	PE6TR1102	\$380.07		18		
	2.4mm Male		Passivated Stainless Steel	1.45:1	Yes	PE6179	\$577.87		19		
					No	PE6TR1104	\$390.37		20		
50 GHz			Passivated Stainless Steel	1.45:1	No	PE6178	\$522.30		21		
				1.2:1	No	PE6TR1103	\$380.07		22		
2.4mm Female				No	PE6TR1105	\$380.07	23				
											24
2.92mm Male		Passivated Stainless Steel	1.25:1	Yes	PE6174	\$313.17	25				
				No	PE6TR1107	\$256.47	26				
		40 GHz	Passivated Stainless Steel	1.25:1	No	PE6173	\$276.03		27		
				1.15:1	No	PE6TR1106	\$246.17		28		
2.92mm Female		Passivated Stainless Steel	1.25:1	No	PE6175	\$347.20	29				
											30
3.5mm Male				1.15:1	No	PE6TR1108	\$266.77		31		
				1.25:1	No	PE6TR1109	\$277.07		32		
3.5mm Female				1.15:1	No	PE6TR1110	\$256.47		33		
				1.25:1	No	PE6TR1111	\$277.07		34		
BMA Plug				1.25:1	No	PE6TR1112	\$256.47		35		
											36
BMA Jack				1.2:1		PE6TR1041	\$178.08		37		
											38
Mini SMP Female				1.3:1		PE6TR1042	\$191.26		39		
				1.2:1		PE6TR1044	\$58.73		40		
				1.15:1	No	PE6TR1117	\$55.52		41		
				1.2:1	No	PE6TR1118	\$101.97		42		
27 GHz				No	PE6TR1119	\$163.77	43				
											44
40 GHz				No	PE6TR1120	\$256.47	45				
											46
50 GHz				1.4:1	No	PE6TR1120	\$256.47		47		
											48
MMCX Male		6 GHz	Gold Plated Brass	1.35:1	No	PE6199	\$29.83		49		
											50
QMA Male		4 GHz		1.2:1	Yes	PE6TR1050	\$16.64		51		
											52
QN Male				1.2:1	Yes	PE6TR1051	\$23.53		53		
											54
SMA Male		6 GHz	Tri-Metal Plated Brass	1.1:1	No	PE6150	\$7.10		55		
											56
				1.2:1	No	PE6241	\$16.16		57		
											58
				1.2:1	No	PE6TR1014	\$9.32	59			
				1.25:1	Yes	PE6069	\$64.72	60			
18 GHz				1.25:1	Yes	PE6072	\$96.45	61			
										62	
				1.35:1	Yes	PE6071	\$59.07	63			
										64	
26.5 GHz		Passivated Stainless Steel	1.35:1	Yes	PE6078	\$119.95	65				
				No	PE6077	\$119.17	66				
SMA Female		18 GHz		1.25:1	No	PE6078	\$119.95	67			
										68	
26.5 GHz				1.25:1	No	PE6073	\$93.71	69			
										70	
SMB Plug		4 GHz	Gold Plated Brass	1.2:1	Yes	PE6080	\$172.87	71			
										72	
SMB Jack				1.2:1	No	PE6079	\$143.54	73			
										74	
SMC Jack		10 GHz		1.2:1	No	PE6TR1037	\$26.55	75			
										76	
				1.35:1	No	PE6TR002	\$12.36	77			
				1.35:1	No	PE6TR005	\$9.97	78			

Terminations & Matching Pads



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RF Load

50 Ohm



Max. Power (Watts)	Connector	Maximum Frequency.	Construction Material	VSWR Max.	Chain	Model No	1 Pc. Price	See Web for Volume Pricing	ROW	
1 W	SMP Male	18 GHz	Gold over Nickel Plated Brass	1.2:1	No	PE6TR1039	\$124.63	See Web for Volume Pricing	59	
	SMP Female		Gold Plated Brass	1.2:1	No	PE6161	\$225.86		60	
		27 GHz	Passivated Stainless Steel	1.15:1	No	PE6TR1040	\$58.73		61	
				1.2:1	No	PE6160	\$173.76		62	
		40 GHz	Gold Plated Brass	1.15:1	No	PE6TR1113	\$50.47		63	
				1.2:1	No	PE6TR1114	\$112.27		64	
		SSMC Plug	10 GHz	Gold Plated Brass	1.2:1	No	PE6TR1115		\$163.77	65
					1.3:1	No	PE6TR1116		\$153.47	66
		2 W	2.4mm Male	50 GHz	Passivated Stainless Steel	1.3:1	No		PE6243	\$28.45
	2.4mm Female		1.3:1			No	PE6227		\$338.91	68
2.92mm Male	40 GHz		Passivated Stainless Steel	1.45:1	No	PE6242	\$549.20	69		
				1.25:1	No	PE6180	\$610.10	70		
4.3-10 Male	6 GHz		Passivated Stainless Steel	1.25:1	Yes	PE6177	\$421.20	71		
				1.15:1	No	PE6176	\$371.36	72		
				1.15:1	Yes	PE6TR1045	\$49.26	73		
				1.15:1	Yes	PE6TR1046	\$46.52	74		
7/16 DIN Male	3 GHz		Silver Plated Brass	1.1:1	No	PE6TR1047	\$53.67	75		
	6 GHz		Aluminum			PE6TR1048	\$54.69	76		
BNC Male	3 GHz		Tri-Metal Plated Brass	1.15:1	No	PE6190	\$69.64	77		
	4 GHz		Nickel Plated Brass			PE6TR1013	\$72.40	78		
N Male	6 GHz		Tri-Metal Plated Brass	1.2:1	No	PE6196	\$38.00	79		
			Nickel Plated Brass			PE6TR007	\$23.15	80		
	18 GHz		Nickel Plated Brass	1.1:1	No	PE6TR008	\$25.60	81		
				1.2:1		PE6156	\$28.27	82		
	N Female		6 GHz	Tri-Metal Plated Brass	1.2:1	No	PE6TR010	\$28.44	83	
			18 GHz	Nickel Plated Brass			PE6154	\$39.92	84	
	QMA Male		3 GHz	Tri-Metal Plated Brass	1.15:1	No	PE6248	\$29.60	85	
			6 GHz	Nickel Plated Brass			PE6249	\$20.95	86	
5 W	SMA Male	26.5 GHz	Tri-Metal Plated Brass	1.3:1	Yes	PE6TR009	\$19.62	87		
			Nickel Plated Brass		Yes	PE6TR012	\$24.61	88		
	SMA Female	18 GHz	Tri-Metal Plated Brass	1.3:1	Yes	PE6075	\$94.56	89		
			Nickel Plated Brass		No	PE6009	\$58.59	90		
	TNC Male	6 GHz	Tri-Metal Plated Brass	1.2:1	No	PE6TR011	\$27.94	91		
			Passivated Stainless Steel		Yes	PE6076	\$153.34	92		
	TNC Female	18 GHz	Tri-Metal Plated Brass	1.3:1	No	PE6032	\$85.98	93		
			Passivated Stainless Steel		Yes	PE6TR1052	\$16.97	94		
	SMA Male	18 GHz	Passivated Stainless Steel	1.3:1	Yes	PE6TR1036	\$37.91	95		
			Gold Plated Stainless Steel		Yes	PE6082	\$78.42	96		
SMA Female	18 GHz	Passivated Stainless Steel	1.3:1	No	PE6081	\$57.98	97			
		Gold Plated Stainless Steel		Yes	PE6TR675	\$97.14	98			
TNC Male	6 GHz	Tri-Metal Plated Brass	1.35:1	Yes	PE6TR677	\$93.51	99			
		Passivated Stainless Steel		No	PE6TR671	\$76.50	1			
TNC Female	18 GHz	Tri-Metal Plated Brass	1.3:1	No	PE6TR673	\$87.97	2			
		Passivated Stainless Steel		Yes	PE6084	\$107.54	3			
SMA Male	26.5 GHz	Tri-Metal Plated Brass	1.35:1	No	PE6083	\$78.33	4			
		Passivated Stainless Steel		Yes	PE6TR014	\$19.99	5			
SMA Female	18 GHz	Tri-Metal Plated Brass	1.3:1	No	PE6172	\$20.57	6			
		Passivated Stainless Steel		No	PE6TR016	\$14.76	7			
TNC Male	6 GHz	Tri-Metal Plated Brass	1.25:1	Yes	PE6090	\$143.94	8			
		Passivated Stainless Steel		No	PE6089	\$136.24	9			
TNC Female	18 GHz	Tri-Metal Plated Brass	1.25:1	No	PE6229	\$32.54	10			
		Passivated Stainless Steel		No	PE6TR015	\$26.50	11			
SMA Male	26.5 GHz	Tri-Metal Plated Brass	1.3:1	Yes	PE6092	\$229.54	12			
		Passivated Stainless Steel		No	PE6091	\$159.83	13			
SMA Female	18 GHz	Tri-Metal Plated Brass	1.25:1	Yes	PE6TR028	\$787.06	14			
		Passivated Stainless Steel		No	PE6100	\$224.77	15			

Terminations & Matching Pads

RF Load

50 Ohm



Max. Power (Watts)	Connector	Maximum Frequency.	Construction Material	VSWR Max.	Chain	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
5 W	7/16 DIN Female	7 GHz	Tri-Metal Plated Brass		No	PE6139	\$223.45	See Web for Volume Pricing	16
	N Male	3 GHz	Aluminum	1.15:1		PE6187	\$39.35		17
		6 GHz			PE6186	\$87.43	18		
	N Female	18 GHz	Black Anodized Aluminum Heatsink	1.25:1	No	PE6097	\$151.33		19
	SMA Male				No	PE6098	\$183.62		20
	SMA Female				No	PE6095	\$128.43		21
	TNC Male				No	PE6096	\$196.97		22
TNC Female	No				PE6099	\$186.39	23		
	No				PE6138	\$212.97	24		
10 W	7/16 DIN Male	7 GHz	Black Anodized Aluminum Heatsink	1.25:1	No	PE6105	\$349.93		25
	7/16 DIN Female				No	PE6141	\$338.93		26
	BNC Male	No			PE6034	\$187.63	27		
	BNC Female	No			PE6101	\$251.38	28		
	N Male	6 GHz		1.15:1	No	PE6185	\$119.10		29
					No	PE6035	\$273.05		30
	N Female	18 GHz		1.4:1	No	PE6102	\$307.09		31
	SMA Male				No	PE6036	\$211.22		32
	SMA Female				No	PE6103	\$283.90		33
	TNC Male				No	PE6104	\$284.27		34
	TNC Female				No	PE6140	\$358.97		35
20 W	4.1/9.5 Mini DIN Male	2.7 GHz	Black Anodized Aluminum	1.33:1		PE6TR1022	\$471.59		36
	4.3-10 Male				PE6TR1023	\$490.46	37		
	7/16 DIN Male				PE6TR1021	\$429.31	38		
	N Male				PE6TR1020	\$446.06	39		
25 W	7/16 DIN Male	7 GHz	Black Anodized Aluminum Heatsink	1.25:1	No	PE6107	\$465.01		40
	7/16 DIN Female	8 GHz		1.6:1	PE6209	\$344.24	41		
		3 GHz		1.2:1	No	PE6228	\$146.40		42
	N Male	18 GHz		1.6:1	No	PE6205	\$462.78		43
				1.4:1	No	PE6106	\$497.23		44
	1.6:1			No	PE6206	\$448.31	45		
	1.4:1			No	PE6037	\$595.46	46		
	SMA Male			1.6:1	PE6203	\$456.61	47		
	SMA Female			1.6:1	PE6204	\$409.65	48		
	TNC Male	1.4:1		No	PE6038	\$538.77	49		
	TNC Female	1.6:1		PE6207	\$490.32	50			
							PE6208		\$446.25
							52		
30 W	SMA Female	4.2 GHz	Chem Film Plated Aluminum	1.25:1		PE6TR1000	\$212.13		53
40 W	4.1/9.5 Mini DIN Male	2.7 GHz	Black Anodized Aluminum	1.15:1		PE6TR1026	\$656.45		54
	4.3-10 Male				PE6TR1027	\$670.05	55		
	7/16 DIN Male				PE6TR1025	\$500.85	56		
	N Male				PE6TR1024	\$500.85	57		
50 W	7/16 DIN Male	2.7 GHz	Aluminum	1.2:1	No	PE6238	\$821.68		58
		3 GHz	Black Anodized Aluminum Heatsink	1.15:1		PE6191	\$379.66		59
		4 GHz		1.25:1	No	PE6169	\$510.98		60
	8 GHz	1.6:1			PE6217	\$529.20	61		
	7/16 DIN Female	3 GHz		1.1:1		PE6189	\$254.29		62
	N Male	4 GHz	1.2:1		PE6188	\$371.67	63		
		8.5 GHz	1.3:1	No	PE6TR029	\$303.37	64		
		18 GHz	1.6:1		PE6213	\$533.35	65		
			1.45:1	No	PE6198	\$463.73	66		
			1.25:1		PE6233	\$291.41	67		
		N Female	3 GHz	Aluminum	1.1:1		PE6234		\$202.14
	18 GHz		Black Anodized Aluminum Heatsink	1.6:1		PE6214	\$525.58		69
			1.45:1	No	PE6039	\$642.93	70		
	SMA Male			1.6:1		PE6211	\$541.14		71
SMA Female	3 GHz	Nickel Plated Brass	1.25:1		PE6232	\$219.12	72		
							73		

Terminations & Matching Pads



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RF Load

50 Ohm



Max. Power (Watts)	Connector	Maximum Frequency.	Construction Material	VSWR Max.	Chain	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
50 W	SMA Female	6 GHz	Chem Film Plated Aluminum	1.25:1		PE6TR1001	\$439.78	See Web for Volume Pricing			74
		18 GHz	Black Anodized Aluminum Heatsink	1.6:1		PE6212	\$511.02				75
	1.45:1			No	PE6040	\$716.94	76				
	1.6:1				PE6215	\$497.63	77				
TNC Male					PE6216	\$539.99	78				
TNC Female					PE6TR1030	\$572.41	79				
60 W	4.1/9.5 Mini DIN Male	2.7 GHz	Black Anodized Aluminum	1.15:1		PE6TR1031A	\$708.36				80
	4.3-10 Male				PE6TR1029	\$691.38	81				
	7/16 DIN Male				PE6TR1028	\$554.52	82				
	N Male				PE6TR1035A	\$943.18	83				
100 W	4.3-10 Male	2.7 GHz	Black Anodized Aluminum	1.2:1	No	PE6197	\$374.98				86
	4.3-10 Female				PE6TR1035F	\$943.18	84				
	7/16 DIN Male				PE6TR1033A	\$804.95	85				
	7/16 DIN Female	3 GHz	Black Anodized Aluminum Heatsink	1.35:1	No	PE6137	\$940.98	87			
		2 GHz				PE6TR1033F	\$804.95	88			
	BNC Female	2.7 GHz	Black Anodized Aluminum	1.2:1	No	PE6239	\$1,173.82	89			
					Aluminum						
	N Male	2.7 GHz	Black Anodized Aluminum Heatsink		No	PE6041	\$924.98	90			
	N Female	2.7 GHz	Black Anodized Aluminum	1.2:1	No	PE6TR1032A	\$804.95	91			
	SMA Male	8 GHz	Black Anodized Aluminum Heatsink	1.5:1		PE6168	\$571.23	92			
		2 GHz			No	PE6TR1032F	\$848.87	93			
SMA Female	6 GHz	Chem Film Plated Aluminum	1.25:1		PE6222	\$721.25	94				
							PE6219	\$759.32	95		
TNC Female	8 GHz	Black Anodized Aluminum Heatsink	1.5:1		PE6043	\$976.50	96				
							PE6TR1002	\$449.99	97		
150 W	SMA Female	3 GHz	Chem Film Plated Aluminum	1.3:1		PE6220	\$677.96	98			
200 W	N Male	3 GHz	Black Anodized Aluminum Heatsink	1.25:1	No	PE6224	\$517.64	99			
N Female								PE6TR1003	\$442.61	1	
300 W	N Female	3 GHz	Chem Film Plated Aluminum	1.3:1		PE6230	\$619.78	2			
500 W	N Female	1.2 GHz	Chem Film Plated Aluminum	1.25:1		PE6231	\$639.15	3			
800 W	N Female	500 MHz	Chem Film Plated Aluminum	1.5:1		PE6TR1004	\$570.99	4			
						PE6TR1005	\$555.88	5			
						PE6TR1006	\$702.88	6			

75 Ohm



Max. Power (Watts)	Connector	Maximum Frequency.	Construction Material	VSWR Max.	Chain	Model No	1-24	25-49	50-99	100+	ROW
0.25 W	F Male	3 GHz	Nickel Plated Zinc			PE6202-100PK	\$76.04	\$72.24	\$68.44	\$65.39	7
						PE6202-25PK	\$22.09	\$20.99	\$19.88	\$19.00	8
					No	PE6202	\$1.28	\$1.22	\$1.15	\$1.10	9
1 W	BNC Male	1,000 MHz	Nickel Plated Brass		No	PE6165	\$17.31	\$16.44	\$15.58	\$14.89	10
		2 GHz	Tri-Metal Plated Brass	1.35:1	No	PE6TR004	\$64.61	\$61.38	\$58.15	\$55.56	11
2 W	BNC Male	2 GHz		1.2:1	No	PE6TR040	\$19.55	\$18.57	\$17.60	\$16.81	12
	BNC Female			1.15:1	No	PE6TR003	\$65.84	\$62.55	\$59.26	\$56.62	13

Terminations & Matching Pads

Feed-Thru Load

50 Ohm



Max. Power (Watts)	Connector Input	Connector Output	Maximum Frequency.	Construction Material	VSWR Max.	Chain	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
2 W	BNC Male	BNC Female	1,000 MHz	Tri-Metal Plated Brass	1.3:1	No	PE6TR000	\$52.48	See Web for Volume Pricing			14
	N Male	N Female		Nickel Plated Brass	1.65:1	No	PE6033	\$153.34				15
	SMA Male	SMA Female		Passivated Stainless Steel	1.25:1	No	PE6026	\$91.81				16

75 Ohm



Max. Power (Watts)	Connector Input	Connector Output	Maximum Frequency.	Construction Material	VSWR Max.	Chain	Model No	1-24	25-49	50-99	100+	ROW
2 W	BNC Male	BNC Female	1,000 MHz	Tri-Metal Plated Brass	1.3:1	No	PE6TR001	\$37.24	\$35.38	\$33.52	\$32.03	17

Resistive Impedance Transformers



Model No	Connector A 50 Ω	Connector B 75 Ω	Max. Frequency (MHz.)	VSWR Max.	Attenuation Loss (dB)	Accuracy (dB)	1 Pc. Price	See Web for Volume Pricing			ROW
PE7006	BNC Male	BNC Female	2,000	1.2:1		±0.5	\$65.80	See Web for Volume Pricing			18
PE7007	BNC Male	BNC Female	2,000	1.2:1	6		\$62.84				19
PE7067	BNC Male	F Male	3,000	1.25:1	5.7	±0.5	\$129.49				20
PE7066	BNC Male	F Female	3,000	1.25:1		±0.5	\$147.15				21
PE7068	BNC Female	F Male	3,000	1.25:1		±0.5	\$140.35				22
PE7072	N Male	F Male	3,000	1.25:1		±0.5	\$151.12				23
PE70MP1002	N Male	F Female	3,000				\$131.27				24
PE7071	N Male	F Female	3,000	1.25:1		±0.5	\$113.68				25
PE7027	N Male	N Female	2,000	1.2:1		±0.5	\$129.26				26
PE7070	N Male	N Female	3,000	1.35:1		±0.5	\$129.69				27
PE7073	N Female	F Male	3,000	1.25:1		±0.5	\$190.64				28
PE70MP1001	N Female	F Female	3,000				\$169.34				29
PE7074	N Female	F Female	3,000	1.25:1		±0.5	\$155.34				30
PE7028	N Female	N Male	500	1.35:1		±0.5	\$29.40				31
PE7083	N Female	N Male	3,000	1.35:1		±0.5	\$169.68				32
PE70MP1007	SMA Male	F Male	3,000				\$106.82				33
PE7075	SMA Male	F Male	3,000	1.25:1		±0.5	\$162.56				34
PE70MP1006	SMA Male	F Female	3,000				\$116.09				35
PE7076	SMA Male	F Female	3,000	1.25:1		±0.5	\$118.60				36
PE70MP1005	SMA Female	F Male	3,000				\$106.82				37
PE7077	SMA Female	F Male	3,000	1.25:1		±0.5	\$107.70				38
PE70MP1004	SMA Female	F Female	3,000				\$126.74				39
PE7078	SMA Female	F Female	3,000	1.25:1		±0.5	\$129.50				40
PE7079	TNC Male	F Female	3,000	1.25:1	5.7	±0.5	\$169.34				41
PE7081	TNC Female	F Male	3,000	1.25:1	5.7	±0.5	\$171.89				42
PE7082	TNC Female	F Female	3,000	1.25:1	5.7	±0.5	\$117.84				43

Terminations & Matching Pads



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CALIBRATION KITS

Bench Type Calibration Kits



Connector Series	Impedance (Ohms)	Frequency Range (GHz)	Cal Type	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
2.4mm	50	DC to 50	SOL	PE5CK1015	\$8,549.00	See Web for Volume Pricing	1
			SOLT	PE5CK1016	\$11,514.07		2
2.92mm		DC to 40	SOL	PE5CK1017	\$12,346.61		3
			SOLT	PE5CK1018	\$14,372.11		4
3.5mm		DC to 8.5	SOLT	PE5CK1001	\$3,633.44		5
			SOL	PE5500-KIT	\$4,546.17		6
			SOLT	PE5CK1000	\$5,484.45		7
			SOL	PE5CK1019	\$6,995.76		8
7/16 DIN		DC to 26.5	SOLT	PE5CK1020	\$7,743.11		9
			SOL	PE5CK1021	\$9,358.71		10
7mm	DC to 7.5	SOLT	PE5CK1022	\$13,820.83	11		
BNC		SOL	PE5CK1023	\$6,463.91	12		
N	DC to 10	SOL	PE5CK1024	\$7,772.78	13		
		SOLT	PE5501-KIT	\$5,910.34	14		
		SOL	PE5CK1025	\$5,353.49	15		
F	DC to 18	SOL	PE5CK1026	\$7,342.75	16		
		SOLT	PE5CK1002	\$2,716.35	17		
		SOLT	PE70MP5000	\$4,700.78	18		

Test & Measurement

VNA TEST CABLES

For Use With Interchangeable Connectors



Impedance (Ohms)	Connector Series	Frequency Range (GHz)	Type	Model No	1	2-4	5-9	10+	R O W
50	3.5mm NMD Female	DC - 26.5	Cable for Interchangeable Connectors	PE310-KIT	\$5,550.61	\$5,356.34	\$5,162.07	\$4,995.55	19

Interchangeable Connectors



Impedance (Ohms)	Connector Series	Frequency Range (GHz)	Gender	Polarity	Type	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
50	3.5mm	DC - 26.5	Female	Standard	Connector	PE44488	\$661.67	See Web for Volume Pricing	20
			Male			PE44487	\$696.53		
	N	DC - 18	Female			PE44486	\$417.48		
			Male			PE44485	\$467.49		

4 - IN - 1 CALIBRATION KITS

Product Features

- Lightweight Portable 4-in-1 Package
- Precision 3.5mm Connectors
- Gold Plated Short Open Load Thru
- Supports 26.5 GHz SOLT Calibration
- Calibration Coefficients on Data Sheet



Connector 1	Impedance (Ohms)	Freq. Range (GHz)	Weight (lbs.)	Model No	1	2-4	5-9	10+	R O W
3.5mm Female Short Open Load Thru	50	DC to 26.5	2.752	PE5CK1012	\$4,067.45	\$3,904.75	\$3,742.05	\$3,579.36	24
3.5mm Male Short Open Load Thru				PE5CK1013	\$4,120.52	\$3,955.70	\$3,790.88	\$3,626.06	25

COAXIAL RF PROBES & PROBE POSITIONING HARDWARE

Product Features

PCB RF Probe Positioner ([PE5TL1000](#)): \$1,269.78

- RF PCB probe positioner holds coaxial probes
- Magnetic mounting plate
- On-Off positioner switch
- Articulated joints
- Multi-axis positioner control

Coaxial RF Microwave GS and GSG Probe Series ([PE2PB1000-PE2PB1003](#)):

- Max. Operating Frequency of 20 GHz
- RF probe Return Loss better than 10 dB
- GS and GSG Probes Feature Gold Plated Contacts
- Compliant coaxial GSG (or GS) pogo pins



RF MICROWAVE PROBES

Probe Tip Config.	Number of Ground	Pitch 1 (µm)	Pitch 2 (µm)	Connector 1	Imp. (Ω)	Freq. Max (GHz)	RL Max (dB)	IL Max (dB)	Model No	1-4	5-9	10-24	25+	R O W
GS	1	800		2.92mm Female	50	40	10	0.5	PE2PB1006	\$882.24	\$838.13	\$794.02	\$758.73	26
				3.5mm Female					PE2PB1002	\$630.58	\$599.05	\$567.52	\$542.30	27
	2	1500	2,500	2.92mm Female					PE2PB1007	\$908.39	\$862.97	\$817.55	\$781.22	28
				3.5mm Female					PE2PB1003	\$649.28	\$616.82	\$584.35	\$558.38	29
GSG	2	800		2.92mm Female	50	40	10	0.5	PE2PB1004	\$947.81	\$900.42	\$853.03	\$815.12	30
				3.5mm Female					PE2PB1000	\$677.30	\$643.44	\$609.57	\$582.48	31
	4	1500	2,500	2.92mm Female					PE2PB1005	\$973.96	\$925.26	\$876.56	\$837.61	32
				3.5mm Female					PE2PB1001	\$695.99	\$661.19	\$626.39	\$598.55	33

40 GHZ SKEW MATCHED CABLES



Product Features

- 1 ps Delay match
- Excellent VSWR of 1.4:1
- 100% tested up to 40 GHz
- Extremely Flexible
- Polarity indicators on cable ends

Connector 1	Connector 2	Max Frequency (GHz)	Max VSWR	Typ Insertion Loss (dB/ft)	Model No	1	2-4	5-9	10+	ROW
2.92mm Male	2.92mm Male	40	1.4:1	1.4	PE3C4680-12	\$1,173.34	\$1,126.41	\$1,079.47	\$1,032.54	34
				2.8	PE3C4680-24	\$1,300.04	\$1,248.04	\$1,196.04	\$1,144.04	35
				5.6	PE3C4680-48	\$1,553.43	\$1,491.29	\$1,429.16	\$1,367.02	36

HANDHELD RF ANALYZER RUGGED PHASE STABLE CABLE ASSEMBLIES

Product Features

- Designed for in-field measurements with handheld or portable analyzers
- Excellent VSWR as low as 1.2:1
- Excellent Phase Stability with Flexure as low as 1.5 degrees
- Rugged Armor provides 1200 p.s.i crush resistance plus torque resistance
- UV resistance jacket
- Each assembly is serialized and includes test data



Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL @fmax (dB/ft)	Phase Stability with Flexure (Degrees)	Length (in)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW		
N Male	7/16 DIN Male	7	50	1.2:1	2.16	1.5	60.0	PE3C4000-60	\$657.16	See Web for Volume Pricing	37		
	7/16 DIN Female				4.92		144.0	PE3C4000-144	\$861.72		38		
		N Male			2.16		60.0	PE3C4001-60	\$928.81		39		
	N Male Right Angle				4.92		144.0	PE3C4001-144	\$1,157.97				
		N Male			9		2.52	60.0	PE3C4002-60		\$536.42	40	
	N Female						5.74	144.0	PE3C4002-144		\$791.30		
		N Male			18		2.52	60.0	PE3C4003-60		\$824.84	41	
	N Female						5.74	144.0	PE3C4003-144		\$1,136.07		
		N Male			27		2.52	60.0	PE3C4004-60		\$536.42	42	
	N Female						5.74	144.0	PE3C4004-144		\$791.30		
		N Male			39.4		1.3:1	2.66	39.4		2.0	PE3C4005-100CM	\$648.53
	PE3C4006-100CM											\$871.78	
	N Male	60.0			3.89		2.0	60.0	PE3C4007-100CM		\$690.69	44	
									PE3C4008-60		\$747.71		
	SMA Male	SMA Female			18		1.3:1	3.89	60.0		PE3C4009-60	\$747.71	45
											PE3C4010-60	\$1,046.18	
TNC Male	TNC Female	18	1.3:1	3.89	60.0	PE3C4011-60	\$1,046.18	46					
						PE3C4012-100CM	\$945.57						
3.5mm Male	3.5mm Female	27	1.3:1	3.46	39.4	4.0	PE3C4013-100CM	\$945.57	47				
3.5mm Female							PE3C4013-100CM	\$945.57		48			
										49			
											50		

Test & Measurement

RUGGEDIZED VNA TEST CABLE ASSEMBLIES

See Our Website For Current Pricing & Real-Time Stock Availability!



Product Features

- Rugged VNA test port extenders
- Torsion resistant connector heads
- Max phase variation +/- 2° with flexure to 18 GHz
- Max phase variation +/- 3° with flexure to 26.5 GHz
- Max phase variation +/- 5° with flexure to 40 GHz
- 5,000 mating cycles minimum
- 75,000 flexure cycles minimum
- Each cable is serialized and comes with RF test data
- SMA, Type-N, 2.92mm and 2.4mm configurations available

Pasternack's ruggedized VNA test cables are designed to provide customers with repeatable accurate VNA measurements. These test cables have excellent electrical properties including low insertion loss, low VSWR and phase stability of +/- 2° to 18 GHz with flexure. Torsion resistant connector heads are directly attached to stainless steel conduit style armoring providing a rugged design for up to 5,000 mating cycles with proper care. The cable armoring enhances amplitude and phase stability by preventing stress due to over bending while maintaining the flexibility required for testing in a lab environment. When used with the appropriate calibration kit these test cables effectively extend the test port of the VNA allowing for accurate measurements of devices that cannot be directly connected to a Network Analyzer test port.

Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL (dB/ft)	IL (dB/m)	Phase Stability with Flexure (Degrees)	Flex Cycles	Model No	1 Pc. Price	See Web for Volume Pricing	ROW				
2.4mm Male	2.4mm Female	40	50	1.38:1	0.83	2.72	5	---	PE3VNA4005-24	\$2,292.19	See Web for Volume Pricing	51				
	2.4mm Male								PE3VNA4004-24	\$2,138.38		52				
2.92mm Male	2.92mm Female	26.5							1.25:1	0.64		2.1	3	PE3VNA2606-24	\$1,649.29	53
		40							1.38:1	0.83		2.72	5	PE3VNA4002-24	\$2,155.32	54
	2.92mm Male	26.5							1.25:1	0.64		2.1	3	PE3VNA2605-24	\$1,616.99	55
		40							1.38:1	0.83		2.72	5	PE3VNA4001-24	\$2,087.53	56
3.5mm Male	3.5mm Female	26.5		1.3:1	0.64	2.1	3		PE3VNA2604-24	\$1,616.99		57				
	3.5mm Male			PE3VNA2603-24					\$1,584.74	58						
N Male	N Female	18		1.25:1	0.52	1.71	2		PE3VNA1804-24	\$874.60		59				
	N Male								PE3VNA1803-24	\$858.46		60				
SMA Male	SMA Female								PE3VNA1802-24	\$858.46		61				
	SMA Male								PE3VNA1801-24	\$842.31		62				

See Web for other lengths

50 AND 67 GHZ TEST CABLE ASSEMBLIES

Product Features

- Highly flexible VNA test cables up to 50 and 67 GHz
- Max phase variation +/- 6° to 50 GHz and +/- 8° to 67 GHz with flexure
- VSWR of 1.3:1 to 50 GHz and 1.4:1 to 67 GHz
- Rated up to 5,000 mating cycles
- Up to 100,000 flex cycles
- Swept right angle connector options available
- Highly flexible stainless steel braided armoring
- Designed for accurate and repeatable measurements



Test & Measurement

Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL @fmax (dB/ft)	Phase Stability with Flexure (Degrees)	Flex Cycles	Model No	1	2-4	5-9	10+	ROW
2.4mm Male	2.4mm Male	50	50	1.300	3.7	6.00	100,000	PE3TC0500-24	\$3,024.23	\$2,903.26	\$2,782.29	\$2,661.32	63
					7			PE3TC0500-48	\$3,179.00	\$3,051.84	\$2,924.68	\$2,797.52	

Continued on Next Page



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Same-Day Shipping,
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50 AND 67 GHZ TEST CABLE ASSEMBLIES

Product Features

- Highly flexible VNA test cables up to 50 and 67 GHz
- Max phase variation +/- 6° to 50 GHz and +/- 8° to 67 GHz with flexure
- VSWR of 1.3:1 to 50 GHz and 1.4:1 to 67 GHz
- Rated up to 5,000 mating cycles
- Up to 100,000 flex cycles
- Swept right angle connector options available
- Highly flexible stainless steel braided armoring
- Designed for accurate and repeatable measurements



Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL @fmax (dB/ft)	Phase Stability with Flexure (Degrees)	Flex Cycles	Model No	1	2-4	5-9	10+	ROW
2.4mm Male	2.4mm Female	50		1.300	3.7	6.00	100,000	PE3TC0600-24	\$3,024.23	\$2,903.26	\$2,782.29	\$2,661.32	64
					7			PE3TC0600-48	\$3,179.00	\$3,051.84	\$2,924.68	\$2,797.52	
	2.4mm Male Right Angle				3.7			PE3TC0700-24	\$3,537.13	\$3,395.64	\$3,254.16	\$3,112.67	65
					7			PE3TC0700-48	\$3,688.49	\$3,540.95	\$3,393.41	\$3,245.87	
1.85mm Male	1.85mm Male	67		1.400	4.3	8.00	100,000	PE3TC0800-24	\$3,127.53	\$3,002.43	\$2,877.33	\$2,752.23	66
					8.2			PE3TC0800-48	\$3,279.23	\$3,148.06	\$3,016.89	\$2,885.72	
	1.85mm Female				4.3			PE3TC0900-24	\$3,127.53	\$3,002.43	\$2,877.33	\$2,752.23	67
					8.2			PE3TC0900-48	\$3,279.23	\$3,148.06	\$3,016.89	\$2,885.72	
	1.85mm Male				4.3			PE3TC0800-500CM	Call	Call	Call	Call	68
					8.2			PE3TC1000-24	\$3,637.51	\$3,492.01	\$3,346.51	\$3,201.01	
	1.85mm Male Right Angle				4.3			PE3TC1000-48	\$3,792.44	\$3,640.74	\$3,489.04	\$3,337.35	69
					8.2								

1.0MM FLEXIBLE VNA 110 GHZ PRECISION CABLES

Product Features

- Operating to 110 GHz
- Lightweight, protective armoring
- Precision 1.0mm stainless steel connectors
- Non-conductive protective Nome® outer sleeve
- Easy assembly is serialized and includes test data



Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL @fmax (dB/ft)	Phase Stability with Flexure (Degrees)	Length (in)	Model No	1	2-4	5-9	10+	ROW
1.0mm Male	1.0mm Male	110	50	1.5	3.12	1.5	6.0	PE3TC1220-6	\$6,373.75	\$6,118.80	\$5,863.85	\$5,608.90	70
					5.62		PE3TC1220-12	\$8,529.33	\$8,188.16	\$7,846.98	\$7,505.81		
	1.0mm Female				3.12		PE3TC1221-6	\$6,373.75	\$6,150.67	\$5,927.59	\$5,736.38	71	
					5.62		PE3TC1221-12	\$6,652.90	\$6,420.05	\$6,187.20	\$5,987.61		

PE-TC195 SERIES PHASE STABLE TEST CABLE ASSEMBLIES

Product Features

- Phase and amplitude stability with flexure
- Small diameter, lighter weight and lower profile for high density test applications
- Phase change with flexure +/-2° to 18 GHz
- Excellent for multi-port test equipment
- Very flexible and durable cable with a min. bend radius of 1 inch
- Excellent VSWR and insertion loss
- Extra strain relief for extended connector body with booting to enhance stability and longevity
- Each serialized assembly comes with matching test data
- 5,000 mating cycles when properly mated
- In-Stock and ready to ship



See Our Website For Current Pricing & Real-Time Stock Availability!

Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL (dB/ft)	IL (dB/m)	Phase Stability with Flexure (Degrees)	Flex Cycles	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
N Male	N Female	18	50	1.25:1	0.68	2.23	2	75,000	PE3TC0104-24	\$416.24	See Web for Volume Pricing	72
	N Male								PE3TC0103-24	\$369.28		73
SMA Male	SMA Female	27	2.06	6.76	3	PE3TC0105-24	\$357.55	74				
		18				PE3TC0102-24	\$386.89	75				
	SMA Male	18	2.06	6.76	3	PE3TC0202-24	\$600.12	76				
		27				PE3TC0101-24	\$339.94	77				
							PE3TC0201-24	\$492.52	78			

See Web for other lengths

PE-TC151 SERIES PHASE STABLE TEST CABLE ASSEMBLIES

Product Features

- Phase and amplitude stability with flexure
- Small diameter, lighter weight and lower profile for high density test applications
- Phase change with flexure +/-5° to 18 GHz
- Excellent for multi-port test equipment
- Very flexible and durable cable with a min. bend radius of 0.75 inches
- Excellent VSWR and insertion loss
- Extra strain relief for extended connector body with booting to enhance stability and longevity
- Each serialized assembly comes with matching test data
- 5,000 mating cycles when properly mated
- In-Stock and ready to ship



Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL (dB/ft)	IL (dB/m)	Phase Stability with Flexure (Degrees)	Flex Cycles	Model No	1-9	10-24	25+	ROW
N Male	N Male	18	50	1.3:1	0.85	2.79	5	75,000	PE3TC0302-24	\$301.67	\$286.59	\$271.50	79
									PE3TC0303-24	\$292.28	\$277.67	\$263.05	80
SMA Male	SMA Male	27	2.06	6.76	3	PE3TC0301-24	\$250.04	\$237.54	\$225.04	81			
						PE3TC0401-24	\$423.75	\$402.56	\$381.38	82			

See Web for other lengths

Test & Measurement



Technical Support
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75 OHM TEST CABLE ASSEMBLIES



Product Features

- Phase and amplitude stability with flexure
- Small diameter, lighter weight and lower profile for high density test applications
- Very flexible and durable cable with a min. bend radius of 0.75 inches
- Each serialized assembly comes with matching test data

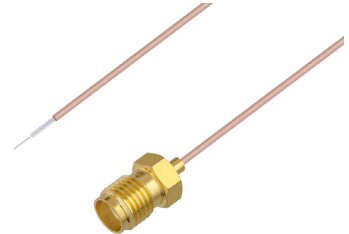
Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL (dB/ft)	IL (dB/m)	Phase Stability with Flexure (Degrees)	Flex Cycles	Model No	1-9	10-24	25+	ROW
N Male	F Male	3	75	1.16:1	0.193	0.63	5	100,000	PE3CA1031-60cm	\$284.41	\$270.19	\$255.97	83
	N Male								PE3CA1032-60cm	\$323.03	\$306.88	\$290.73	84

See Web for other lengths

SEMI-RIGID PIGTAIL TEST PROBES

Product Features

- Operating to 6 GHz
- SMA Female connectors
- Excellent VSWR of 1.3:1
- Straight-cut and pre-stripped probe ends available



Connector 1	Cable	Lead	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL @fmax (dB/ft)	Length (in)	Model No	1-24	25-49	50-99	100+	ROW
SMA Female	PE-020SR	Straight Cut Lead	6	50	1.35:1	0.43	3.0	PE3CA1107-3	\$67.10	\$63.75	\$60.39	\$57.71	85
		Trimmed Lead						PE3CA1104-3	\$104.73	\$99.49	\$94.26	\$90.07	86
	PE-034SR	Straight Cut Lead				0.28		PE3CA1102-3	\$34.79	\$33.05	\$31.31	\$29.92	87
		Trimmed Lead				0.20		PE3CA1105-3	\$39.51	\$37.53	\$35.56	\$33.98	88
	PE-047SR	Straight Cut Lead				PE3CA1103-3		\$34.58	\$32.85	\$31.12	\$29.74	89	
		Trimmed Lead				PE3CA1106-3		\$43.95	\$41.75	\$39.56	\$37.80	90	

See Web for other lengths

26.5 GHZ & 40 GHZ TEST CABLES

Product Features



- Rugged Armored Jacket
- 1.38 Inch [3.5cm] Bend Radius
- RoHS Compliant



Connector 1	Connector 2	Freq. Max (GHz)	Imp (Ohm)	VSWR	IL @fmax (dB/ft)	Length (in)	Model No	1	2-4	5-9	10+	ROW
3.5mm Male	3.5mm Male	26.5	50	1.25	0.64	Various	PE3VNA2603	Call	Call	Call	Call	91
3.5mm Female	3.5mm Female			1.3			PE3VNA2604					92
2.92mm Male	2.92mm Male			1.25			PE3VNA2605					93
		PE3VNA2606	94									
2.92mm Female	2.92mm Female	40	1.38	0.83	Various	PE3VNA4001	Call	Call	Call	Call	95	
2.4mm Male	2.4mm Male					PE3VNA4002					96	
2.4mm Female	2.4mm Female					PE3VNA4004					97	
						PE3VNA4005					98	

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TOOLS							
Cable Cutter							
							
Type	Coax/Wire Type	Model No	1-24	25-49	50-99	100+	ROW
Cable Cutter	Coax	PE5200	\$104.64	\$99.41	\$94.18	\$89.99	1
Insertion/Extraction Tool							
							
Type	Connector Type	Model No	1-24	25-49	50-99	100+	ROW
Insertion/Extraction Tool	BNC	PE5014	Call	Call	Call	Call	2

Tools

Torque Wrenches



See Our Website For Current Pricing & Real-Time Stock Availability!

Type	Bit Hex Size	Preset Torque (in.-lbs)	Design	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
1.0mm	15/64 inch	4	Break-Over	PE5019-16	\$242.40	See Web for Volume Pricing	3
3.5mm, 2.92mm	5/16 inch	8		PE5019-1	\$210.86		
		12		PE5019-2	\$227.60		
7mm	3/4 inch	14	Click Type	PE5011-3	\$394.41		4
N	20 mm	8.1	Break-Over	PE5019-5	\$242.40		3
		14	Click Type	PE5011-7	\$318.02		4
	25/32 inch		8.1	Break-Over	PE5019-6		\$240.14
3/4 inch	PE5019-3	\$240.14					
	N, 7mm	14	PE5019-4		\$240.14		
N, SC	13/16 inch	8.1	Click Type	PE5019-7	\$240.14		4
		14		PE5011-6	\$383.61		
SMA	5/16 inch	5	Break-Over	PE5019-8	\$240.14		3
SMA, 2.92mm		8	Click Type	PE5019-19	\$223.35		
SMC	1/4 inch	3		PE5011-1	\$256.76		4
	15/64 inch		PE5011-2	\$354.79			
SSMA	1/4 inch	5	Break-Over	PE5019-11	\$242.40		3
		8	Click Type	PE5019-13	\$242.40		
		8.1	PE5011-5	\$363.11			
SSMC	5/32 inch	2	Break-Over	PE5019-14	\$242.40		4
TNC	5/8 inch	6.1		PE5019-12	\$240.14		
		12		PE5019-18	\$259.38		
		14	Click Type	PE5019-10	\$240.14		
TNC	9/16 inch	6.1	Break-Over	PE5011-4	\$360.10	4	
		12		PE5019-17	\$242.40		
		13	Click Type	PE5019-9	\$240.14		
				PE5011-8	\$339.73	3	
						4	

Tools

Crimp Tools



Type	Hex Size (in.)	Compatible Dies	Cable Type	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
Crimp Tools	0.068, 0.100, 0.128, 0.178	---	RG174, RG179, RG180, RG187, RG188, RG195, RG316	PE5006	\$167.48	See Web for Volume Pricing			5
	0.068, 0.213, 0.255		RG55, RG58, RG59, RG62, RG142, RG223 RG400	PE5001	\$149.61				6
	0.100, 0.429		RG9, RG11, RG87A, RG149, RG165, RG213, RG214, RG216, RG225, RG393	PE5007	\$177.15				7
Crimp Tool Kit	0.042, 0.068, 0.080, 0.100, 0.128, 0.151, 0.178, 0.213, 0.255, 0.324, 0.429	---	RG5, RG6, RG8, RG9, RG11, RG21, RG55, RG58, RG59, RG62, RG87A, RG140, RG141, RG142, RG143, RG165, RG174, RG179, RG180, RG187, RG188, RG195, RG210, RG212, RG213, RG214, RG216, RG222, RG223, RG225, RG303, RG304, RG316, RG393, RG400	PE5004-KIT	\$403.61	See Web for Volume Pricing			8
Crimp Tool, Scissor style, No Die	---	PE5010-1, PE5010-2, PE5010-3, PE5010-4, PE5010-5 and PE5010-6	---	PE5008	\$458.07				9
Crimp Tool, Straight Style, No Die	---	PE5010-1, PE5010-2, PE5010-3, PE5010-4, PE5010-5 and PE5010-6	---	PE5009	\$232.97				10
Crimp Tool for Compression Connectors	---	---	RG6, RG11, RG59	PE5012	\$158.60				11

Crimp Tool Dies



Type	Hex Size (in.)	Compatible Crimp Tools	Cable Type	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
Dies, Crimp Tool	0.128, 0.100	PE5008 and PE5009	RG174, RG178, RG179, RG188, RG196, RG316	PE5010-2	\$225.30	See Web for Volume Pricing			12
	0.213, 0.068		RG58, RG142, RG223, RG400	PE5010-1	\$298.05				
	0.255, 0.068		RG8X, RG59, RG62, PE-C240	PE5010-3	\$266.11				
	0.429, 0.100		RG8, RG213, RG214, PE-B400, PE-B405, PE-C400	PE5010-5	\$234.09				



INDEX GUIDE TO WAVEGUIDE PRODUCTS

WAVEGUIDE ANTENNAS.....360

WAVEGUIDE ANTENNAS.....360 | **WG ANTENNA ACCESSORIES.....365**

Pasternack offers a large selection of waveguide antennas from WR-284 to WR-15 (2.6 GHz to 75 GHz) in a variety of flanges and gain. Both UG and CPR/CMR style flanges are available. Most of the gain horn antennas can be purchased already assembled with a waveguide to coax adapter.



WAVEGUIDE BENDS.....369



Pasternack offers a selection of E and H plane waveguide bends of various flanges and interfaces, covering the frequency range from 5.85 GHz to 18 GHz with VSWR as low as 1.08:1.

WAVEGUIDE FILTERS.....369

BANDPASS.....369

Pasternack offers a selection of high performance waveguide bandpass filters, covering the frequency range from 20.2 GHz to 40 GHz with WR-28 and WR-42 interfaces. These filters exhibit excellent out-of-band rejection making them ideally suited to receiver front-end or transmitter applications.



WAVEGUIDE BULKHEAD ADAPTERS.....370



The Pasternack series of rectangular waveguide bulkhead flange mount adapters are mounted to the panel of equipment with screws. Once mounted, waveguides flanges can be attached to the adapter on both sides of the bulkhead adapter to allow a signal path through the panel.

WAVEGUIDE CONVERTERS.....371

MIXER DOWN CONVERTERS.....371 | **MIXER UP CONVERTERS.....371**

Pasternack offers a series of Millimeter Wave Up and Down Converter Mixers that cover popular Ka, Q, U, V, E, and W Bands up to 110 GHz with an IF frequency of DC to 18 GHz. L and R ports support popular waveguide sizes from WR-28 to WR-10, and the IF port utilize Female SMA connectors.



WAVEGUIDE COUPLERS.....371

ASSEMBLIES.....376 | **BROADWALL.....371** | **CROSSGUIDE.....372**



Pasternack offers a brand new family of instrumentation grade directional waveguide couplers boasting accurate performance up to 110 GHz in seven popular frequency bands including K, Ka, Q, U, V, E and W bands. These waveguide couplers boast high directivity of 30 dB typical and insertion loss is as low as 0.6 dB in some models.

WAVEGUIDE DETECTORS.....377

Waveguide detectors consists of 6 unique models covering a broad frequency range of 26.5 GHz to 110 GHz. The input ports use popular waveguide sizes ranging from WR-28 to WR-10, while the video output ports utilize SMA female connectors. The detector circuits use high performance GaAs Schottky Barrier Beam lead diodes with extremely low junction capacitance.



WAVEGUIDE DIRECT READ ATTENUATORS.....377




These continuously variable attenuators have "direct read" capability which allows the user to dial-in the amount of attenuation needed to within 2% accuracy over most of the attenuation range. The attenuation level is stable, highly repeatable and accurate across the full frequency and attenuation range. These attenuators are ideal for precision measurements in demanding applications like instrumentation and system calibration.

WAVEGUIDE ELECTROMECHANICAL RELAY SWITCHES.....377


Pasternack offers a series of 28 waveguide electromechanical relay switch models that offer full waveguide performance covering C, X, Ku, K and Ka frequency bands from 5.85 GHz 40 GHz. These switches re configured for single-pole double-throw (SPDT) operation with latching self-cut-off actuators, TTL logic and position indicators with manual override.



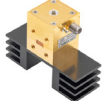
WAVEGUIDE FIXED ATTENUATORS.....379

	<p>Pasternack's wide selection of waveguide fixed attenuator products offers precision attenuation levels over the operating frequency ranges.</p>
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FLEXIBLE WAVEGUIDES.....380

<p>SEAMLESS.....380</p>	<p>TWISTABLE.....380</p>	
<p>This family of flexible, seamless waveguides or flexible, twistable waveguides that can be bent in both the E and H planes without impairing VSWR or attenuation. These waveguides are covered by a neoprene jacket which protect the waveguide and provides mechanical support.</p>		



WAVEGUIDE GUNN OSCILLATORS.....381

<p>Waveguide Gunn Oscillators consist of 2 models that have center frequencies of 24.125 GHz and 35 GHz. Both models are tunable and supply output power levels of +10 dBm min. Compact package outlines support WR-28 and WR-42 waveguide sizes.</p>	
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WAVEGUIDE ISOLATORS..... 381 WAVEGUIDE POWER AMPLIFIERS.....383

	<p>Pasternack Enterprises offers a wide variety of waveguide isolators from WR-10 to WR-112.</p>		<p>Waveguide Power Amplifiers consist of 2 models that cover 70.5 GHz to 86.5 GHz (E Band) and support WR-12 waveguide ports.</p>
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WG LOW NOISE AMPLIFIERS.....382 WAVEGUIDE SECTIONS..... 383

<p>Pasternack WG Low Noise Amplifiers are ruggedly built 50 ohm designs and unconditionally stable with impressive performance across freq. bands.</p>		<p>Pasternack offers a standard product line of waveguide straight section of various length and flanges, covering the frequency range from 5.85 GHz to 12.4 GHz.</p>	
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WAVEGUIDE MAGIC TEES..... 382 WAVEGUIDE TERMINATIONS.....385

	<p>Pasternack's magic, or hybrid tees are 4 port device that is internally tuned to optimize matching, balance, and isolation.</p>		<p>Pasternack has a large family of high performance loads from WR-112 to WR-10. These standard terminations can dissipate up to 300 Watts of power depending on the specific band.</p>
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WG ORTHOMODE TRANSDUCERS.....382 WAVEGUIDE TRANSITIONS.....386

<p>These Orthomode Transducers are used for separating signals into two linear orthogonal signals. Pasternack's OMT line support from 8.2 to 90 GHz with 30-35 dB of isolation between ports.</p>		<p>Pasternack's family of Waveguide Transitions/Adapters are used as a means of propagating RF/Microwave energy from one waveguide size to another.</p>	
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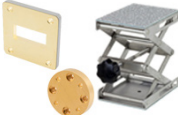
WAVEGUIDE PHASE SHIFTERS.....382 WAVEGUIDE TWISTS.....387

	<p>These waveguide variable phase shifters are built using low loss dielectric material, which offers minimum insertion loss..</p>		<p>Pasternack offers waveguide twists in 45 degree left and right hand waveguide versions as well at 90 degree. These twists are designed and constructed to prevent unwanted distortion to the signal's transmission.</p>
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WAVEGUIDE PIN DIODE SWITCHES.....383 WAVEGUIDE VARIABLE ATTEN..... 388

<p>Waveguide PIN Diode Switches consist of 4 models that cover 60 GHz to 110 GHz, in both SPST and SPDT configurations.</p>		<p>The Continuously Variable attenuators are equipped with a micrometer, which enables rapid re-setting. With calibrated charts, attenuators can be used as direct reading attenuator for bench top test set use.</p>	
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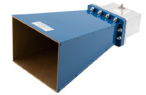
WAVEGUIDE POLARIZERS.....383 WAVEGUIDE ACCESSORIES..... 388

	<p>Pasternack's Waveguide Polarizers transform polarized signals from circular to linear and vice versa. They can operate as either right hand or left hand polarization. Waveguide Polarizers currently cover Ku, Ka, and V bands.</p>		<p>Pasternack Enterprises offers a variety of waveguide accessories from WR-10 to WR-430.</p>
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Waveguides

WAVEGUIDE ANTENNAS

Waveguide Antennas With Coax Adapters



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-28	26.5 - 40	10	WR-28 - 2.92mm Female	EAR99	PE9850B/2F-10	\$1,804.73	\$1,732.54	\$1,660.35	\$1,588.16	1
		15		EAR99	PE9850B/2F-15	\$1,874.15	\$1,799.18	\$1,724.22	\$1,649.25	2
		20		EAR99	PE9850B/2F-20	\$1,993.16	\$1,913.43	\$1,833.71	\$1,753.98	3
WR-34	22 - 33	10	WR-34 - 2.92mm Female	EAR99	PE9851B/2F-10	\$1,859.96	\$1,785.56	\$1,711.16	\$1,636.76	4
		15		EAR99	PE9851B/2F-15	\$2,003.80	\$1,923.65	\$1,843.50	\$1,763.34	5
		20		EAR99	PE9851B/2F-20	\$2,140.33	\$2,054.72	\$1,969.10	\$1,883.49	6
WR-42	18 - 26.5	10	WR-42 - 2.92mm Female	EAR99	PE9852B/2F-10	\$1,617.15	\$1,552.46	\$1,487.78	\$1,423.09	7
		15		EAR99	PE9852B/2F-15	\$1,713.90	\$1,645.34	\$1,576.79	\$1,508.23	8
		20		EAR99	PE9852B/2F-20	\$1,840.31	\$1,766.70	\$1,693.09	\$1,619.47	9
WR-51	15 - 22	10	WR-51 - SMA Female	EAR99	PE9853B/SF-10	\$1,638.30	\$1,572.77	\$1,507.24	\$1,441.70	10
		15		EAR99	PE9853B/SF-15	\$1,757.92	\$1,687.60	\$1,617.29	\$1,546.97	11
WR-62	12.4 - 18	10	WR-62 - N Female	EAR99	PE9854B/NF-10	\$1,411.63	\$1,355.16	\$1,298.70	\$1,242.23	12
		15		EAR99	PE9854B/NF-15	\$1,457.70	\$1,399.39	\$1,341.08	\$1,282.78	13
		20		EAR99	PE9854B/NF-20	\$1,552.92	\$1,490.80	\$1,428.69	\$1,366.57	14
		10	WR-62 - SMA Female	EAR99	PE9854B/SF-10	\$1,411.28	\$1,354.83	\$1,298.38	\$1,241.93	15
		15		EAR99	PE9854B/SF-15	\$1,457.26	\$1,398.97	\$1,340.68	\$1,282.39	16
		20		EAR99	PE9854B/SF-20	\$1,549.69	\$1,487.70	\$1,425.71	\$1,363.73	17
WR-75	10 - 15	10	WR-75 - N Female	EAR99	PE9855B/NF-10	\$1,432.55	\$1,375.25	\$1,317.95	\$1,260.64	19
		15		EAR99	PE9855B/NF-15	\$1,454.53	\$1,396.35	\$1,338.17	\$1,279.99	18
		20		EAR99	PE9855B/NF-20	\$1,515.55	\$1,454.93	\$1,394.31	\$1,333.68	19
		10	WR-75 - SMA Female	EAR99	PE9855B/SF-10	\$1,404.00	\$1,347.84	\$1,291.68	\$1,235.52	21
		15		EAR99	PE9855B/SF-15	\$1,448.05	\$1,390.13	\$1,332.21	\$1,274.28	20
		20		EAR99	PE9855B/SF-20	\$1,509.07	\$1,448.71	\$1,388.34	\$1,327.98	21
WR-90	8.2 - 12.4	10	WR-90 - N Female	EAR99	PE9856B/NF-10	\$1,342.40	\$1,288.70	\$1,235.01	\$1,181.31	22
		15		EAR99	PE9856B/NF-15	\$1,434.43	\$1,377.05	\$1,319.68	\$1,262.30	23
		20		EAR99	PE9856B/NF-20	\$1,496.71	\$1,436.84	\$1,376.97	\$1,317.10	24
		10	WR-90 - SMA Female	EAR99	PE9856B/SF-10	\$1,288.52	\$1,236.98	\$1,185.44	\$1,133.90	25
		15		EAR99	PE9856B/SF-15	\$1,434.43	\$1,377.05	\$1,319.68	\$1,262.30	26
		20		EAR99	PE9856B/SF-20	\$1,506.26	\$1,446.01	\$1,385.76	\$1,325.51	27
WR-102	7 - 11	10	WR-102 - N Female	EAR99	PE9857B/NF-10	\$1,499.63	\$1,439.64	\$1,379.66	\$1,319.67	28
		15		EAR99	PE9857B/NF-15	\$1,604.76	\$1,540.57	\$1,476.38	\$1,412.19	29
		20		EAR99	PE9857B/NF-20	\$1,650.13	\$1,584.12	\$1,518.12	\$1,452.11	29
		10	WR-102 - SMA Female	EAR99	PE9857B/SF-10	\$1,556.07	\$1,493.83	\$1,431.58	\$1,369.34	30
		10		EAR99	PE9857B/SF-15	\$1,628.08	\$1,562.96	\$1,497.83	\$1,432.71	30
		20		EAR99	PE9857B/SF-20	\$1,706.57	\$1,638.31	\$1,570.04	\$1,501.78	31
WR-112	7.05 - 10	10	WR-112 - N Female	EAR99	PE9858B/NF-10	\$1,466.30	\$1,407.65	\$1,349.00	\$1,290.34	32
		15		EAR99	PE9858B/NF-15	\$1,536.94	\$1,475.46	\$1,413.98	\$1,352.51	33
		20		EAR99	PE9858B/NF-20	\$1,653.66	\$1,587.51	\$1,521.37	\$1,455.22	33
		10	WR-112 - SMA Female	EAR99	PE9858B/SF-10	\$1,425.14	\$1,368.13	\$1,311.13	\$1,254.12	34
		15		EAR99	PE9858B/SF-15	\$1,520.62	\$1,459.80	\$1,398.97	\$1,338.15	34
		20		EAR99	PE9858B/SF-20	\$1,612.50	\$1,548.00	\$1,483.50	\$1,419.00	35
WR-137	5.85 - 8.2	10	WR-137 - N Female	EAR99	PE9859B/NF-10	\$1,575.07	\$1,512.07	\$1,449.06	\$1,386.06	36
		15		EAR99	PE9859B/NF-15	\$1,636.97	\$1,571.49	\$1,506.01	\$1,440.53	37
		10	WR-137 - SMA Female	EAR99	PE9859B/SF-10	\$1,575.07	\$1,512.07	\$1,449.06	\$1,386.06	38
		15		EAR99	PE9859B/SF-15	\$1,636.97	\$1,571.49	\$1,506.01	\$1,440.53	39
WR-159	4.9 - 7.05	15	WR-159 - N Female	EAR99	PE9860B/NF-15	\$1,891.63	\$1,815.96	\$1,740.30	\$1,664.63	40
		15	WR-159 - SMA Female	EAR99	PE9860B/SF-15	\$1,884.43	\$1,809.05	\$1,733.68	\$1,658.30	41
WR-284	2.6 - 3.95	10	WR-284 - N Female	EAR99	PE9863B/NF-10	\$2,542.84	\$2,441.13	\$2,339.41	\$2,237.70	42
		10	WR-284 - SMA Female	EAR99	PE9863B/SF-10	\$2,865.50	\$2,750.88	\$2,636.26	\$2,521.64	43
WR-430	1.7 - 2.6	10	WR-430 - N Female	EAR99	PE9864B/NF-10	\$3,107.39	\$2,983.09	\$2,858.80	\$2,734.50	44
		15		EAR99	PE9864B/NF-15	\$3,933.64	\$3,776.29	\$3,618.95	\$3,461.60	44
		10	WR-430 - SMA Female	EAR99	PE9864B/SF-10	\$3,078.69	\$2,955.54	\$2,832.39	\$2,709.25	45
		15		EAR99	PE9864B/SF-15	\$4,063.50	\$3,900.96	\$3,738.42	\$3,575.88	45

Standard Gain Horns

See Our Website For Current Pricing & Real-Time Stock Availability!



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-5	140 - 220	10		EAR99	PEWAN1029	\$2,217.19		46
		15		EAR99	PEWAN1030	\$2,217.19		47
		20		EAR99	PEWAN1031	\$2,217.19		48
		25		EAR99	PEWAN1032	\$2,325.40		49
WR-6	110 - 170	10		EAR99	PEWAN1025	\$1,814.07		50
		15		EAR99	PEWAN1026	\$1,840.94		51
		20		EAR99	PEWAN1027	\$1,867.82		52
		25		EAR99	PEWAN1028	\$2,196.44		53
WR-8	90 - 140	10	Round Cover UG-387/U-Mod	EAR99	PEWAN1021	\$1,545.32		54
		15		EAR99	PEWAN1022	\$1,572.19		55
		20		EAR99	PEWAN1023	\$1,599.07		56
		25		EAR99	PEWAN1024	\$2,015.63		57
WR-10	75 - 110	10		EAR99	PEWAN1017	\$1,295.68		58
		15		EAR99	PEWAN1018	\$1,303.44		59
		20		EAR99	PEWAN1019	\$1,402.89		60
		25		EAR99	PEWAN1020	\$1,773.03		61
WR-12	60 - 90	10		EAR99	PEWAN1013	\$1,346.21		62
		15		EAR99	PEWAN1014	\$1,374.55		63
		20		EAR99	PEWAN1015	\$1,402.89		64
		25		EAR99	PEWAN1016	\$1,842.19		65
WR-15	50 - 75	10	Round Cover UG-387/U	EAR99	PEWAN1009	\$1,295.68		66
		15	Round Cover UG-385/U-Mod	EAR99	PEWAN1010	\$1,374.55		67
		20	Round Cover UG-385/U	EAR99	PEWAN1011	\$1,330.32		68
		24	Round Cover UG-385/U	EAR99	PE9881-24	\$1,613.93		69
		25	Round Cover UG-385/U-Mod	EAR99	PEWAN1012	\$1,842.19		70
WR-19	40 - 60	10	Round Cover UG-383/U-Mod	EAR99	PEWAN1005	\$1,417.07		71
		15		EAR99	PEWAN1006	\$1,472.98		72
		20		EAR99	PEWAN1007	\$1,500.26		73
		25		EAR99	PEWAN1008	\$1,773.03		74
WR-28	26.5 - 40	10	Square Cover UG-599/U	EAR99	PE9850B-10	\$931.16	See Web for Volume Pricing	75
		15		EAR99	PE9850B-15	\$1,116.93		76
		20		EAR99	PE9850B-20	\$1,054.14		77
WR-34	22 - 33	10	Square Cover UG-1530/U	EAR99	PE9851B-10	\$903.79		78
		15		EAR99	PE9851B-15	\$1,039.53		79
		20		EAR99	PE9851B-20	\$1,176.05		80
WR-42	18 - 26.5	10	Square Cover UG-597/U	EAR99	PE9852B-10	\$903.24		81
		15		EAR99	PE9852B-15	\$1,046.79		82
		20		EAR99	PE9852B-20	\$1,178.54		83
WR-51	15 - 22	10	Square Cover	EAR99	PE9853B-10	\$812.95		84
		15		EAR99	PE9853B-15	\$876.00		85
		20		EAR99	PE9853B-20	\$920.32		86
WR-62	12.4 - 18	10	Square Cover UG-1665/U	EAR99	PE9854B-10	\$924.50		87
		15	Square Cover	EAR99	PE9854B-15	\$967.50		88
		20		EAR99	PE9854B-20	\$1,134.84		89
WR-75	10 - 15	10	Square Cover	EAR99	PE9855B-10	\$954.95		90
		15		EAR99	PE9855B-15	\$1,012.25		91
		20		EAR99	PE9855B-20	\$1,021.25		92
		25		EAR99	PE9856B-10	\$916.39		93
WR-90	8.2 - 12.4	15	Square Cover UG-135/U	EAR99	PE9856B-15	\$1,065.35		94
		20		EAR99	PE9856B-20	\$1,116.61		95
		25		EAR99	PE9857B-10	\$903.79		96
WR-102	7 - 11	10	Square Cover UG-1493/U	EAR99	PE9857B-10	\$908.42		97
		15	Square Cover	EAR99	PE9857B-15	\$963.20		98
		20	Square Cover UG-1493/U	EAR99	PE9857B-20	\$963.20		99
WR-112	7.05 - 10	10	Square Cover	EAR99	PE9858B-10	\$994.16		1
		15	Square Cover UG-138/U	EAR99	PE9858B-15	\$1,069.21		2
		20	Square Cover	EAR99	PE9858B-20	\$1,144.88		3
WR-137	58.5 - 82	20	CMR-137F	EAR99	PE9859B-20	\$1,075.00		4
	5.85 - 8.2	10	CMR-137	EAR99	PE9859B-10	\$929.13		5
15		EAR99		PE9859B-15	\$989.77	6		
WR-159	49 - 70.5	20	CMR-159	EAR99	PE9860B-20	Call		



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Standard Gain Horns



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1-4	5-9	10-24	25+	ROW
WR-159	4.9 - 7.05	10	CMR-159	EAR99	PE9860B-10	\$983.32	\$934.15	\$884.99	\$845.66	7
		15		EAR99	PE9860B-15	\$1,057.20	\$1,004.34	\$951.48	\$909.19	8
WR-187	3.95 - 5.85	10	CMR-187	EAR99	PE9861B-10	\$1,075.00	\$1,021.25	\$967.50	\$924.50	9
		20		EAR99	PE9862B-20	\$1,705.40	\$1,620.13	\$1,534.86	\$1,466.64	10
WR-229	33 - 49	15	CMR-229	EAR99	PE9862B-15	\$1,359.99	\$1,291.99	\$1,223.99	\$1,169.59	11
		20		EAR99	PE9863B-15	\$1,827.50	\$1,736.13	\$1,644.75	\$1,571.65	12
WR-284	26 - 39.5	15	Round Cover UG-584/U	EAR99	PE9863B-15-U	\$1,720.00	\$1,634.00	\$1,548.00	\$1,479.20	13
		20		EAR99	PE9863B-20-U	\$1,914.19	\$1,818.48	\$1,722.77	\$1,646.20	14
	2.6 - 3.95	10	CMR-284	EAR99	PE9863B-10	\$1,393.82	\$1,324.13	\$1,254.44	\$1,198.69	15
		10	Round Cover UG-584/U	EAR99	PE9863B-10-U	\$1,526.50	\$1,450.18	\$1,373.85	\$1,312.79	16
WR-430	17 - 26	10	CPR-430F	EAR99	PE9864B-10	\$1,827.77	\$1,736.38	\$1,644.99	\$1,571.88	17

Conical Gain Horns



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-5	140 - 220	10	Round Cover UG-387/U	EAR99	PEWAN1065	\$2,163.44	See Web for Volume Pricing	18
		15		EAR99	PEWAN1066	\$2,190.32		19
		20		EAR99	PEWAN1067	\$2,217.19		20
		25		EAR99	PEWAN1068	\$2,416.09		21
WR-6	100 - 112	10	Round Cover UG-387/U-Mod	EAR99	PEWAN1061	\$1,814.07		22
		15		EAR99	PEWAN1062	\$1,840.94		23
		20		EAR99	PEWAN1063	\$1,867.82		24
		25		EAR99	PEWAN1064	\$2,082.82		25
WR-8	100 - 112	10	Round Cover UG-387/U-Mod	EAR99	PEWAN1057	\$1,303.44		26
		15		EAR99	PEWAN1058	\$1,330.32		27
		20		EAR99	PEWAN1059	\$1,478.13		28
		25		EAR99	PEWAN1060	\$1,746.88		29
WR-10	87 - 100	10	Round Cover UG-387/U	EAR99	PEWAN1049	\$1,303.44		30
		15		EAR99	PEWAN1050	\$1,330.32		31
		20		EAR99	PEWAN1051	\$1,478.13		32
		25		EAR99	PEWAN1052	\$1,773.03		33
WR-12	77 - 87	10	Round Cover UG-387/U	EAR99	PEWAN1053	\$1,303.44		34
		15		EAR99	PEWAN1054	\$1,330.32		35
		20		EAR99	PEWAN1055	\$1,478.13		36
		25		EAR99	PEWAN1056	\$1,746.88		37
WR-15	68 - 77	10	Round Cover UG-385/U	EAR99	PEWAN1045	\$1,303.44		38
		15		EAR99	PEWAN1046	\$1,330.32		39
		20		EAR99	PEWAN1047	\$1,478.13		40
		25		EAR99	PEWAN1048	\$1,746.88		41
WR-19	50 - 58	10	Round Cover UG-383/U-Mod	EAR99	PEWAN1041	\$1,303.44		42
		15		EAR99	PEWAN1042	\$1,330.32		43
		20		EAR99	PEWAN1043	\$1,478.13		44
		25		EAR99	PEWAN1044	\$1,746.88		45
WR-15	58 - 68	10	Round Cover UG-385/U	EAR99	PEWAN1037	\$1,303.44		46
		15		EAR99	PEWAN1038	\$1,350.24		47
		20		EAR99	PEWAN1039	\$1,478.13		48
		25		EAR99	PEWAN1040	\$1,746.88		49
WR-19	50 - 58	10	Round Cover UG-383/U-Mod	EAR99	PEWAN1033	\$1,182.50		50
		15		EAR99	PEWAN1034	\$1,330.32		51
		20		EAR99	PEWAN1035	\$1,478.13		52
		25		EAR99	PEWAN1036	\$1,773.03		53

See Our Website For Current Pricing & Real-Time Stock Availability!

Waveguides

Wide Angle Scalar Feed Horns



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	89 - 99	10	Round Cover UG-385/U-Mod	EAR99	PEWAN1073	\$5,079.38	\$4,901.60	\$4,723.82	\$4,571.44	54
		10		EAR99	PEWAN1074	\$3,574.38	\$3,449.28	\$3,324.17	\$3,216.94	55
WR-12	72 - 82	10	Round Cover UG-385/U	EAR99	PEWAN1071	\$5,155.41	\$4,974.97	\$4,794.53	\$4,639.87	56
		10		EAR99	PEWAN1072	\$3,574.38	\$3,449.28	\$3,324.17	\$3,216.94	57
WR-15	55 - 65	10		EAR99	PEWAN1069	\$5,079.38	\$4,901.60	\$4,723.82	\$4,571.44	58
		10		EAR99	PEWAN1070	\$3,769.38	\$3,637.45	\$3,505.52	\$3,392.44	59

Lens Gain Horns



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
WR-10	89 - 99	34	Round Cover UG-387/U	EAR99	PEWAN1083	\$5,079.38	See Web for Volume Pricing			60
		34		EAR99	PEWAN1085	\$6,208.13				61
		40		EAR99	PEWAN1084	\$5,537.30				62
		40		EAR99	PEWAN1086	\$6,584.38				63
	40	EAR99	PEWAN1101	\$10,054.62	64					
	88 - 100	48	Square Cover UG-387/U-Mod	EAR99	PEWAN1102	\$10,330.09				65
WR-12	72 - 82	32	Round Cover UG-387/U	EAR99	PEWAN1079	\$4,326.88				66
		32		EAR99	PEWAN1081	\$5,455.63				67
		37		EAR99	PEWAN1080	\$4,703.13				68
		37		EAR99	PEWAN1082	\$5,831.88				69
WR-15	55 - 65	32	Round Cover UG-385/U	EAR99	PEWAN1075	\$3,198.13				70
		32		EAR99	PEWAN1077	\$4,326.88				71
		37		EAR99	PEWAN1076	\$3,574.38				72
		37		EAR99	PEWAN1078	\$4,703.13				73

Omni-Directional



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	90 - 100	0	Round Cover UG-387/U-Mod	EAR99	PEWAN1135	\$4,971.88	\$4,797.86	\$4,623.85	\$4,474.69	74
		6.5	Square Cover UG-387/U-Mod	EAR99	PEWAN1136	\$4,971.88	\$4,797.86	\$4,623.85	\$4,474.69	75
WR-12	89 - 99	2	Round Cover UG-387/U	EAR99	PEWAN1089	\$7,446.71	\$7,186.08	\$6,925.44	\$6,702.04	76
	75 - 79	2		EAR99	PEWAN1088	\$7,336.88	\$7,080.09	\$6,823.30	\$6,603.19	77
	71 - 86	2		EAR99	PEWAN1134	\$4,703.13	\$4,538.52	\$4,373.91	\$4,232.82	78
WR-15	58 - 62	3.5	Round Cover UG-385/U	EAR99	PEWAN1087	\$7,446.71	\$7,186.08	\$6,925.44	\$6,702.04	79
WR-28	26.5 - 40	7.5	Square Cover UG-599/U	EAR99	PEWAN1133	\$4,165.63	\$4,019.83	\$3,874.04	\$3,749.07	80

Probe Waveguide Antennas



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-6	110 - 170	6.5	Round Cover UG-387/U-Mod	EAR99	PEWAN1124	\$1,882.15	\$1,816.27	\$1,750.40	\$1,693.94	81
WR-8	90 - 140	6.5		EAR99	PEWAN1125	\$1,854.38	\$1,789.48	\$1,724.57	\$1,668.94	82
WR-10	75 - 110	6.5		EAR99	PEWAN1126	\$1,854.38	\$1,789.48	\$1,724.57	\$1,668.94	83

Probe Waveguide Antennas



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-12	60 - 90	6.5	Round Cover UG-387/U	EAR99	PEWAN1127	\$1,882.15	\$1,816.27	\$1,750.40	\$1,693.94	84
WR-15	50 - 75	6.5	Round Cover UG-385/U	EAR99	PEWAN1128	\$1,854.38	\$1,789.48	\$1,724.57	\$1,668.94	85
WR-19	40 - 60	6.5	Round Cover UG-383/U-Mod	EAR99	PEWAN1129	\$1,854.38	\$1,789.48	\$1,724.57	\$1,668.94	86
WR-22	33 - 50	6.5	Round Cover UG-383/U	EAR99	PEWAN1130	\$1,854.38	\$1,789.48	\$1,724.57	\$1,668.94	87
WR-28	26.5 - 40	6.5	Square Cover UG-599/U	EAR99	PEWAN1131	\$1,882.15	\$1,816.27	\$1,750.40	\$1,693.94	88
WR-34	22 - 33	6.5	Square Cover UG-1530/U	EAR99	PEWAN1132	\$1,882.15	\$1,816.27	\$1,750.40	\$1,693.94	89

Sector Waveguide Antennas



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-28	30 - 40	0	Square Cover UG-599/U-Mod	EAR99	PEWAN1144	\$3,440.00	\$3,319.60	\$3,199.20	\$3,096.00	90
	27.5 - 29.5	6	Square Cover UG-599/U	EAR99	PEWAN1143	\$3,491.51	\$3,369.31	\$3,247.10	\$3,142.36	91

Dual Polarized Scalar Feed Horns



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
	100 - 112	17	Round Cover UG-387/U-Mod	EAR99	PEWAN1109	\$5,509.38	\$5,316.55	\$5,123.72	\$4,958.44	92
	87 - 100	17	UG-387/U-Mod	EAR99	PEWAN1123	\$4,971.88	\$4,797.86	\$4,623.85	\$4,474.69	93
	77 - 87	17		EAR99	PEWAN1122	\$4,837.50	\$4,668.19	\$4,498.88	\$4,353.75	94
WR-10	75 - 110	13	Square Cover UG-387/U-Mod	EAR99	PEWAN1121	\$20,290.63	\$19,580.46	\$18,870.29	\$18,261.57	95
		15		EAR99	PEWAN1137	\$9,271.88	\$8,947.36	\$8,622.85	\$8,344.69	96
		20		EAR99	PEWAN1141	\$9,271.88	\$8,947.36	\$8,622.85	\$8,344.69	97
WR-12	60 - 90	17	UG-387/U-Mod	EAR99	PEWAN1120	\$4,837.50	\$4,668.19	\$4,498.88	\$4,353.75	98
		13	UG-387/U	EAR99	PEWAN1119	\$19,753.13	\$19,061.77	\$18,370.41	\$17,777.82	99
WR-12	50 - 75	15	Square Cover UG-387/U	EAR99	PEWAN1138	\$8,734.38	\$8,428.68	\$8,122.97	\$7,860.94	1
		17	UG-385/U-Mod	EAR99	PEWAN1118	\$4,703.13	\$4,538.52	\$4,373.91	\$4,232.82	2
WR-12	50 - 75	15	Square Cover UG-385/U	EAR99	PEWAN1139	\$8,062.50	\$7,780.31	\$7,498.13	\$7,256.25	3
WR-15		13	UG-385/U-Mod	EAR99	PEWAN1117	\$20,290.63	\$19,580.46	\$18,870.29	\$18,261.57	4
WR-19	40 - 60	13	UG-383/U-Mod	EAR99	PEWAN1116	\$16,528.13	\$15,949.65	\$15,371.16	\$14,875.32	5
WR-22	33 - 50	15	Square Cover UG-383/U	EAR99	PEWAN1140	\$7,525.00	\$7,261.63	\$6,998.25	\$6,772.50	6
	33 - 38.5	17	UG-599/U	EAR99	PEWAN1115	\$4,300.00	\$4,149.50	\$3,999.00	\$3,870.00	7
	26 - 33	17		EAR99	PEWAN1114	\$4,300.00	\$4,149.50	\$3,999.00	\$3,870.00	8
	26 - 30	17		EAR99	PEWAN1113	\$4,300.00	\$4,149.50	\$3,999.00	\$3,870.00	9
WR-28	24 - 42	10	Square Choke UG-599/U	EAR99	PEWAN1142	\$10,750.00	\$10,373.75	\$9,997.50	\$9,675.00	10
	24 - 40	15	UG-599/U	EAR99	PEWAN1111	\$12,547.57	\$12,108.41	\$11,669.24	\$11,292.81	11
		15		EAR99	PEWAN1112	\$13,706.25	\$13,226.53	\$12,746.81	\$12,335.63	12
	24 - 33	16	Square Cover UG-1530/U	EAR99	PEWAN1110	\$4,300.00	\$4,149.50	\$3,999.00	\$3,870.00	13

Specialty Waveguide Antennas



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
Broadband	1 - 18		Round Cover - UG-385/U	EAR99	PE9887-11	\$3,872.33	\$3,736.80	\$3,601.27	\$3,485.10	14
		EAR99		PE9888-11	\$3,565.14	\$3,440.36	\$3,315.58	\$3,208.63	15	
WR-15	50 - 75	42	Round Cover - UG-385/U	5A991	PE9881-42	\$2,798.32	\$2,686.39	\$2,574.45	\$2,462.52	16
		20		EAR99	PE9881A-20	\$1,182.42	\$1,135.12	\$1,087.83	\$1,040.53	17
				EAR99	PEW15A001	\$4,274.59	\$4,124.98	\$3,975.37	\$3,847.13	18
				5A991	PE9881-34	\$1,694.40	\$1,635.10	\$1,575.79	\$1,524.96	19
				56.5 - 67						

WAVEGUIDE ANTENNA ACCESSORIES

Waveguide to Coax Adapters



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Flange Type	Connector	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW		
WR-10	75-110	1	1.32:1	Round Cover UG-387/U-Mod	1.0mm Female	EAR99	PE-W10CA003	\$5,287.99		20		
			1.33:1		1.0mm Male	EAR99	PE-W10CA004	\$5,210.00		21		
WR-12	60-90		1.67:1	Round Cover UG-387/U	1.0mm Female	EAR99	PE-W12CA001	\$3,348.39		22		
					1.0mm Male	EAR99	PE-W12CA002	\$5,111.72		23		
WR-15	50-65	0.5	1.44:1	Round Cover UG-385/U	1.85mm Female	EAR99	PE-W15CA001	\$1,517.58		24		
					1.85mm Male	EAR99	PE-W15CA002	\$1,563.51		25		
WR-19	40-60	0.4	1.38:1	Round Cover UG-383/U-Mod	1.85mm Female	EAR99	PE-W19CA001	\$1,631.35		26		
					1.85mm Male	EAR99	PE-W19CA002	\$1,461.16		27		
WR-22	33-50	0.5	1.33:1	Round Cover UG-383/U	2.4mm Female	EAR99	PE-W22CA001	\$1,691.47		28		
					2.4mm Male	EAR99	PE-W22CA002	\$1,405.68		29		
					2.4mm Female	EAR99	PEW22CA100	\$1,691.47		30		
					2.4mm Male	EAR99	PEWCA1110	\$1,528.61		31		
WR-28	26.5-40	0.3	1.25:1	Square Cover UG-599/U	2.92mm Female	EAR99	PEWCA1078	\$777.38	See Web for Volume Pricing	32		
				UG383/U	2.92mm Female	EAR99	PEWCA1103	\$1,019.07		33		
				UGBR320	2.92mm Female	EAR99	PEWCA1104	\$847.96		34		
				UGBR320	2.92mm Male	EAR99	PE-W28CA002	\$838.20		35		
		0.35	1.29:1	Square Cover UG-599/U	2.92mm Female	EAR99	PEWCA1000	\$926.26		36		
				UGBR320	2.92mm Female	EAR99	PEWCA1020	\$777.69		37		
				UGBR320	2.92mm Female	EAR99	PEWCA1109	\$1,102.74		38		
				Square Cover	2.92mm Female	EAR99	PE9826	\$518.00		39		
WR-34	21.7-33	0.3	1.35:1	UGBR260	2.92mm Female	EAR99	PEWCA1102	\$1,019.07		40		
				Square Cover UG-1530/U	2.92mm Female	EAR99	PEWCA1001	\$765.94		41		
	22-33	0.3	1.25:1	Square Cover UG-1530/U	2.92mm Female	EAR99	PEWCA1021	\$706.46		42		
				Square Cover	2.92mm Female	EAR99	PE9827	\$912.43		43		
WR-42	17.6-26.7	0.3	1.25:1	UGBR220	2.92mm Female	EAR99	PEWCA1101	\$1,019.07		44		
				SMA Female	EAR99	PEWCA1100	\$418.28	45				
		0.5	1.03:1	Square Cover UG-597/U	SMA Female	EAR99	PEWCA1026	\$711.31		46		
				Square Cover UG-595/U	SMA Female	EAR99	PEWCA1018	\$801.97		47		
		0.75	1.25:1	Square Cover UG-597/U	2.92mm Female	EAR99	PEWCA1019	\$564.90		48		
					2.92mm Female	EAR99	PE-W42CA001	\$824.67		49		
	2.92mm Male				EAR99	PE-W42CA002	\$812.50	50				
	2.92mm Female				EAR99	PEWCA1070	\$944.03	51				
	0.3	1.3:1	Square Cover UG-597/U	SMA Female	EAR99	PEWCA1022	\$616.04	52				
				Square Cover	2.92mm Female	EAR99	PE9878	\$618.80		53		
	WR-51	14.5-22	0.3	1.4:1	Square Cover UG-597/U	2.92mm Male	EAR99	PE9813A		\$660.15		54
					Square Type	2.92mm Female	EAR99	PE9812		\$459.34		55
UGBR180					SMA Female	EAR99	PEWCA1099	\$479.13	56			
Square Cover					SMA Female	EAR99	PEWCA1002A	\$570.71	57			
Square Cover					SMA Female	EAR99	PEWCA1027	\$795.98	58			
Square Type					SMA Female	EAR99	PE9828	\$610.62	59			
WR-62	11.9-18	0.2	1.25:1	UGBR140	N Female	EAR99	PEWCA1097	\$418.28		60		
											61	

Waveguides



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WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Flange Type	Connector	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW	
WR-62	11.9-18	0.2	1.25:1	UBR140	SMA Female	EAR99	PEWCA1098	\$418.28	See Web for Volume Pricing	62	
					SMA Female	EAR99	PEWCA1108	\$471.51		63	
	12.4-18	0.3	1.25:1	Square Cover UG-1665/U	SMA Male	EAR99	PE9809	\$303.48		64	
					N Female	EAR99	PEWCA1028	\$702.17		65	
		1.3:1	1.25:1	Square Cover UG-419/U	SMA Female	EAR99	PEWCA1023	\$580.46		66	
					SMA Female	EAR99	PEWCA1003	\$538.33		67	
			1.3:1	1.3:1	Square Cover UG-1665/U	N Female	EAR99	PEWCA1072		\$917.73	68
						SMA Female	EAR99	PEWCA1071		\$798.75	69
	1.4:1	0.3	1.3:1	Square Type	SMA Female	EAR99	PE9803	\$381.14		70	
					Square Cover	N Male	EAR99	PE9806		\$669.56	71
		1.4:1	1.4:1	Square Type	N Female	EAR99	PE9866	\$724.14		72	
					N Female	EAR99	PE9875	\$366.24		73	
		1.25:1	1.25:1	Square Cover	SMA Female	EAR99	PE9846	\$622.53		74	
					N Female	EAR99	PEWCA1005	\$720.90		75	
WR-75		10-15	0.3	1.25:1	Square Cover	N Female	EAR99	PEWCA1029	\$737.27	76	
						SMA Female	EAR99	PEWCA1004	\$658.63	77	
	1.3:1	1.3:1	Square Type	SMA Female	EAR99	PEWCA1024	\$531.64	78			
				N Female	EAR99	PEWCA1074	\$886.14	79			
		1.4:1	1.4:1	Square Type	SMA Female	EAR99	PEWCA1073	\$797.69	80		
					N Female	EAR99	PE9874	\$466.93	81		
	9.84-15	0.2	1.25:1	UBR120	SMA Female	EAR99	PE9819	\$368.09	82		
					N Female	EAR99	PE9867	\$734.06	83		
		1.3:1	1.3:1	Square Type	SMA Female	EAR99	PE9847	\$677.32	84		
					N Female	EAR99	PEWCA1095	\$418.28	85		
1.4:1			1.4:1	Square Type	SMA Female	EAR99	PEWCA1096	\$418.28	86		
					N Female	EAR99	PEWCA1033	\$830.13	87		
WR-90	8.2-12.4	0.25	1.25:1	CMR-90	SMA Female	EAR99	PEWCA1032	\$830.13	88		
					SMA Female	EAR99	PEWCA1035	\$691.19	89		
		0.3	1.25:1	CPR-90G	N Female	EAR99	PEWCA1036	\$748.99	90		
					N Female	EAR99	PEWCA1009	\$608.55	91		
			1.25:1	Square Cover UG-135/U	SMA Female	EAR99	PEWCA1034	\$690.83	92		
					SMA Female	EAR99	PEWCA1007	\$565.64	93		
			1.3:1	1.25:1	Square Cover UG-135/U	N Female	EAR99	PE9868	\$831.26	94	
						N Female	EAR99	PEWCA1031	\$838.86	95	
		0.2	1.25:1	Square Cover UG-39/U	SMA Female	EAR99	PEWCA1075	\$820.45	96		
					SMA Female	EAR99	PEWCA1025	\$538.33	97		
	1.3:1		1.3:1	Square Cover UG-39/U	SMA Male	EAR99	PEWCA1030	\$718.46	98		
					N Female	EAR99	PEWCA1008	\$702.85	99		
	1.4:1		1.4:1	UBR100	SMA Female	EAR99	PEWCA1006	\$678.76	1		
					N Female	EAR99	PEWCA1092	\$418.28	2		
	1.3:1		1.3:1	CPR-90G	SMA Female	EAR99	PEWCA1093	\$418.28	3		
					SMA Female	EAR99	PEWCA1107	\$471.51	4		
	WR-102	7-10	1.25:1	1.25:1	Square Cover UG-1493/U	N Female	EAR99	PE9873	\$486.75	5	
						N Female	EAR99	PE9801	\$410.10	6	
		7-11	1.3:1	1.3:1	Square Type	N Male	EAR99	PE9889	\$477.87	7	
						SMA Female	EAR99	PE9804	\$364.97	8	
			1.4:1	1.4:1	Square Type	SMA Male	EAR99	PE9810	\$464.32	9	
						SMA Female	EAR99	PE9848	\$599.47	10	
1.25:1		1.25:1	Square Cover UG-1493/U	SMA Female	EAR99	PEWCA1037	\$773.91	11			
				N Female	EAR99	PE9869	\$476.91	12			
		1.3:1	1.3:1	Square Cover UG-1493/U	N Female	EAR99	PEWCA1038	\$830.70	13		
					N Male	EAR99	PEWCA1039	\$830.70	14		
	1.4:1	1.4:1	Square Cover	SMA Female	EAR99	PE9805	\$666.38	15			
				SMA Male	EAR99	PE9811	\$352.21	16			
WR-112	6.57-9.99	0.2	1.25:1	UBR84	N Female	EAR99	PE9802	\$497.48	17		
					N Male	EAR99	PE9890	\$485.36	18		
	1.25:1	1.25:1	UBR84	SMA Female	EAR99	PE9871	\$463.88	19			
				N Female	EAR99	PEWCA1089	\$425.89	20			
1.25:1	1.25:1	UBR84	SMA Female	EAR99	PEWCA1090	\$419.08	21				
			SMA Female	EAR99	PEWCA1106	\$509.54	22				

Waveguides

Waveguide to Coax Adapters



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Flange Type	Connector	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW			
WR-112	7.05-10		1.25:1	CMR-112	N Female	EAR99	PEWCA1043	\$741.18	See Web for Volume Pricing	23			
					SMA Female	EAR99	PEWCA1042	\$713.35		24			
				CPR-112G	N Female	EAR99	PEWCA1045	\$756.80		25			
					N Female	EAR99	PEWCA1013	\$593.23		26			
					SMA Female	EAR99	PEWCA1044	\$699.13		27			
					SMA Female	EAR99	PEWCA1011	\$693.84		28			
				Square Cover UG-138/U	N Female	EAR99	PEWCA1041	\$699.03		29			
					SMA Female	EAR99	PEWCA1040	\$755.59		30			
				Square Cover UG-51/U	N Female	EAR99	PEWCA1012	\$711.87		31			
					SMA Female	EAR99	PEWCA1010	\$720.90		32			
				CPR-112G	1.3:1	1.4:1	Square Type	N Female		EAR99	PE9837	\$639.79	33
								N Female		EAR99	PE9820	\$410.56	34
								N Female		EAR99	PE9870	\$593.41	35
								SMA Female		EAR99	PE9884	\$375.16	36
SMA Female	EAR99	PE9865	\$643.58					37					
WR-137	5.38-8.17	0.2	1.25:1					PDR70	N Female	EAR99	PEWCA1087	\$492.33	38
				N Female	EAR99	PEWCA1086	\$438.30		39				
				UDR70	SMA Female	EAR99	PEWCA1088	\$396.27	40				
					SMA Female	EAR99	PEWCA1089	\$732.13	41				
	CMR-137	1.25:1	1.4:1	CPR-137G	SMA Female	EAR99	PEWCA1048	\$721.33	42				
					N Female	EAR99	PEWCA1051	\$764.58	43				
					N Female	EAR99	PEWCA1017	\$604.50	44				
					SMA Female	EAR99	PEWCA1050	\$732.13	45				
					SMA Female	EAR99	PEWCA1015	\$624.15	46				
					SMA Female	EAR99	PEWCA1016	\$753.67	47				
	Round Cover UG-344/U	N Female	EAR99	PEWCA1014	\$624.15	48							
		N Female	EAR99	PEWCA1047	\$764.58	49							
	Round Cover UG-441/U	SMA Female	EAR99	PEWCA1046	\$732.13	50							
		SMA Female	EAR99	PE9876	\$229.32	51							
CMR-137	1.3:1	0.4	1.3:1	N Female	EAR99	PE9830	\$539.07	52					
				SMA Female	EAR99	PE9838	\$378.30	53					
WR-159	4.9-7.05		1.25:1	CMR-159	N Female	EAR99	PEWCA1053	\$673.87	54				
					SMA Female	EAR99	PEWCA1052	\$726.28	55				
				CPR-159G	N Female	EAR99	PEWCA1055	\$673.87	56				
					SMA Female	EAR99	PEWCA1054	\$699.03	57				
	5.38-8.17	0.2	1.25:1	1.3:1	CMR-159	EAR99	PE9821	\$728.12	58				
					SMA Female	EAR99	PE9831	\$673.53	59				
					CPR-159G	EAR99	PE9839	\$818.08	60				
					UDR58	SMA Female	EAR99	PEWCA1085	\$480.32	61			
WR-187	3.94-5.99	0.2	1.25:1	PDR48	N Female	EAR99	PEWCA1084	\$527.16	62				
					N Female	EAR99	PEWCA1083	\$492.33	63				
				UDR48	N Female	EAR99	PEWCA1105	\$551.37	64				
					SMA Female	EAR99	PEWCA1076	\$435.57	65				
	3.95-5.85	1.25:1	1.3:1	CMR-187	N Female	EAR99	PEWCA1058	\$581.96	66				
					SMA Female	EAR99	PEWCA1057	\$670.97	67				
				CPR-187G	N Female	EAR99	PEWCA1059	\$581.96	68				
					N Female	EAR99	PEWCA1056	\$709.99	69				
				CMR-187	N Female	EAR99	PE9822	\$490.87	70				
					SMA Female	EAR99	PE9832	\$882.24	71				
CPR-187G	N Female	EAR99	PE9840	\$916.05	72								
WR-229	3.3-4.9		1.25:1	CMR-229	N Female	EAR99	PEWCA1060	\$692.60	73				
					N Female	EAR99	PEWCA1062	\$692.60	74				
				CPR-229G	SMA Female	EAR99	PEWCA1061	\$706.22	75				
					N Female	EAR99	PE9823	\$629.15	76				
				CMR-229	SMA Female	EAR99	PE9833	\$715.35	77				
					N Female	EAR99	PE9877	\$974.03	78				
WR-284	2.6-3.95		1.25:1	CMR-284	N Female	EAR99	PEWCA1064	\$731.17	79				
					SMA Female	EAR99	PE9834	\$1,322.00	80				
				CPR-284G	N Female	EAR99	PEWCA1065	\$835.93	81				
					N Female	EAR99	PEWCA1063	\$1,035.66	82				

See Our Website For Current Pricing & Real-Time Stock Availability!

Waveguides

Waveguide to Coax Adapters



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Flange Type	Connector	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
WR-284	2.6-3.95	0.2	1.25:1	UDR32	N Female	EAR99	PEWCA1081	\$638.82	See Web for Volume Pricing			83
					SMA Female	EAR99	PEWCA1082	\$638.82				84
		1.3:1	CMR-284	N Female	EAR99	PE9824	\$597.82	85				
			CPR-284G	N Female	EAR99	PE9842	\$571.82	86				
WR-340	2.17-3.3	0.2	1.25:1	UDR26	N Female	EAR99	PEWCA1077	\$653.89				87
				CPR-340F	N Female	EAR99	PEWCA1066	\$1,404.15				88
	CPR-340G			N Female	EAR99	PEWCA1067	\$1,383.44	89				
	CPR-430F			N Female	EAR99	PEWCA1068	\$1,571.22	90				
WR-430	1.7-2.6	0.2	1.3:1	CPR-430G	N Female	EAR99	PEWCA1069	\$1,620.34				91
					N Female	EAR99	PE9872	\$1,405.01				92
					SMA Female	EAR99	PE9835	\$1,512.25				93
					N Female	EAR99	PE9843	\$1,604.79				94
					N Female	EAR99	PEWCA1079	\$1,188.79	95			
1.72-2.61	0.3	1.25:1	UDR22		SMA Female	EAR99	PEWCA1080	\$1,110.74	96			

Double Ridge Waveguide to Coax Adapters



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Flange Type	Connector	ECCN	Model No	1-4	5-9	10-24	25+	ROW
WRD-180	18-40		1.6:1	Square Cover UG	2.92mm Female	EAR99	PEWCA1120	\$1,468.42	\$1,395.00	\$1,321.58	\$1,262.84	97
				Square Cover	2.92mm Female	EAR99	PEWCA1115	\$1,246.49	\$1,184.17	\$1,121.84	\$1,071.98	98
WRD-650	6.5-18	0.5	1.5:1	Square Cover UG	N Female	EAR99	PEWCA1111	\$904.19	\$858.98	\$813.77	\$777.60	99
					N Female	EAR99	PEWCA1116	\$1,323.18	\$1,257.02	\$1,190.86	\$1,137.93	1
					SMA Female	EAR99	PEWCA1112	\$957.44	\$909.57	\$861.70	\$823.40	2
					SMA Female	EAR99	PEWCA1117	\$1,323.18	\$1,257.02	\$1,190.86	\$1,137.93	3
WRD-750	7.5-18				N Female	EAR99	PEWCA1113	\$1,063.94	\$1,010.74	\$957.55	\$914.99	4
					N Female	EAR99	PEWCA1118	\$1,323.18	\$1,257.02	\$1,190.86	\$1,137.93	5
					SMA Female	EAR99	PEWCA1114	\$1,194.09	\$1,134.39	\$1,074.68	\$1,026.92	6
					SMA Female	EAR99	PEWCA1119	\$1,323.18	\$1,257.02	\$1,190.86	\$1,137.93	7

Corner Reflectors



Description	Model No	1	2-4	5-9	10+	ROW
1.4 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0000	\$940.63	\$907.71	\$874.79	\$846.57	8
1.8 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0001	\$1,034.69	\$998.48	\$962.26	\$931.22	9
2.4 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0002	\$1,128.75	\$1,089.24	\$1,049.74	\$1,015.88	10
3.2 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0003	\$1,582.09	\$1,526.72	\$1,471.34	\$1,423.88	11
4.3 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0004	\$1,558.75	\$1,504.19	\$1,449.64	\$1,402.88	12
6 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0005	\$1,854.38	\$1,789.48	\$1,724.57	\$1,668.94	13
8 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0006	\$2,203.75	\$2,126.62	\$2,049.49	\$1,983.38	14
8.5 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0007	\$2,526.25	\$2,437.83	\$2,349.41	\$2,273.63	15

Corner Reflectors



Description	Model No	1	2-4	5-9	10+	ROW
8.9 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0008	\$2,821.88	\$2,723.11	\$2,624.35	\$2,539.69	16
10 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0009	\$3,359.38	\$3,241.80	\$3,124.22	\$3,023.44	17
13 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0010	\$3,896.88	\$3,760.49	\$3,624.10	\$3,507.19	18
13.5 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0011	\$4,434.38	\$4,279.18	\$4,123.97	\$3,990.94	19
16 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0012	\$6,450.00	\$6,224.25	\$5,998.50	\$5,805.00	20
24 inch Edge Length, Trihedral Corner Reflector, 1/4-20 Threaded Hole Mount, Aluminum Body, Gold Chem Film Finish	PEWRL0013	\$8,868.75	\$8,558.34	\$8,247.94	\$7,981.88	21

WAVEGUIDE BANDPASS FILTERS



Waveguide Type	RF Frequency (GHz.)	Max VSWR	Flange Type	ECCN	Model No	1-9	10-24	25-49	50+	ROW
WR-28	30 - 31	1.4:1	Square Cover	EAR99	PE-W28F001	\$396.26	\$376.45	\$356.63	\$340.78	22
	38 - 40	1.5:1		EAR99	PE-W28F002	\$409.60	\$389.12	\$368.64	\$352.26	23
WR-42	20.2 - 21.2	1.5:1		EAR99	PE-W42F001	\$407.32	\$386.95	\$366.59	\$350.30	24
	24.25 - 24.45	1.8:1		EAR99	PE-W42F002	\$380.36	\$365.15	\$353.73	\$346.13	25
		1.5:1		EAR99	PE-W42F003	\$397.91	\$378.01	\$358.12	\$342.20	26
		1.5:1		EAR99	PE-W42F004	\$397.91	\$378.01	\$358.12	\$342.20	26

WAVEGUIDE BENDS



Waveguide Type	RF Frequency (GHz.)	Insertion Loss (dB)	Bend Plane	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing		ROW
WR-5	140 - 220	0	E-Bend	Round Cover UG-383/U-Mod	EAR99	PEW5B0000	\$571.82	See Web for Volume Pricing		27
			H-Bend		EAR99	PEW5B0001	\$563.39			28
WR-6	110 - 170	0.35	E-Bend		EAR99	PEW6B0000	\$539.40			29
			H-Bend		EAR99	PEW6B0001	\$539.40			30
WR-8	90 - 140	0.3	E-Bend		EAR99	PEW8B0000	\$539.40			31
			H-Bend		EAR99	PEW8B0001	\$531.44			32
WR-10	75 - 110	0.21	E-Bend		EAR99	PE-W10B001	\$525.93			33
			H-Bend		EAR99	PE-W10B002	\$525.93			34
WR-12	60 - 90		E-Bend		EAR99	PE-W12B001	\$443.11			35
			H-Bend		EAR99	PE-W12B002	\$430.69			36
WR-15	50 - 75	0.17	E-Bend	EAR99	PE-W15B001	\$583.98	37			
			H-Bend	EAR99	PE-W15B002	\$583.98	38			
WR-19	40 - 60	0.18	E-Bend	EAR99	PE-W19B001	\$420.58	39			
			H-Bend	EAR99	PE-W19B002	\$420.58	40			
WR-22	33 - 50	0.16	E-Bend	EAR99	PE-W22B001	\$420.58	41			
			H-Bend	EAR99	PEW22B100	\$398.85	42			
		0.25	E-Bend	EAR99	PEW22B101	\$398.85	43			
WR-28	26.5 - 40	0.28	E-Bend	EAR99	PE-W28B001	\$450.04	44			
			H-Bend	EAR99	PE-W28B002	\$560.44	45			
		0.3	E-Bend	EAR99	PE-W28B003	\$464.81	46			

WAVEGUIDE BENDS



See Our Website For Current Pricing & Real-Time Stock Availability!

Waveguide Type	RF Frequency (GHz.)	Insertion Loss (dB)	Bend Plane	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-42	18 - 26.5	0.15	H-Bend	Square Cover UG-595/U	EAR99	PEW42B100	\$433.14	See Web for Volume Pricing	47
		0.2			EAR99	PEW42B101	\$443.40		48
WR-51	15 - 22	0.09	E-Bend	UBR180	EAR99	PE-W51B001	\$409.60		49
WR-62	12.4 - 18				H-Bend	Square Cover UG-419/U	EAR99		PE-W62B003
			E-Bend	EAR99			PE-W62B004		\$438.27
			H-Bend	EAR99	PE-W62B001		\$455.47		52
			H-Bend	EAR99	PE-W62B002		\$421.36		53
WR-75	10 - 15		E-Bend	UBR120	EAR99	PE-W75B001	\$462.43		54
		H-Bend			EAR99	PE-W75B002	\$498.91		55
WR-90	8.2 - 12.4	0.15	E-Bend	Square Cover UG-39/U	EAR99	PE-W90B001	\$423.85		56
					H-Bend	EAR99	PE-W90B002		\$433.35
			H-Bend	CPR-90G	EAR99	PE-W90B003A	\$424.94		58
					EAR99	PE-W90B004A	\$372.16		59
WR-112	7.05 - 10	E-Bend	Square Cover UG-51/U	EAR99	PE-W112B001	\$615.39	60		
				H-Bend	EAR99	PE-W112B002	\$521.91		61
WR-137	5.85 - 8.2	0.15	E-Bend	Round Cover UG-344/U	EAR99	PE-W137B001	\$443.90		62
					H-Bend	EAR99	PE-W137B002		\$468.13
			H-Bend	CPR-137G	EAR99	PE-W137B003A	\$548.21		64
					EAR99	PE-W137B004	\$540.12		65
WRD-180	18 - 40	0.4	E-Bend	Square Cover UG	EAR99	PEWRD180B001	\$742.28		66
WRD-650	6.5 - 18				H-Bend	EAR99	PEWRD180B002	\$742.28	67
			WRD-750		7.5 - 18	E-Bend	EAR99	PEWRD650B001	\$661.59
H-Bend	EAR99					PEWRD650B002	\$661.59	69	
					E-Bend	EAR99	PEWRD750B001	\$661.59	70
					H-Bend	EAR99	PEWRD750B002	\$661.59	71

WAVEGUIDE BULKHEAD ADAPTERS



Waveguides

Frequency Range (GHz.)	Waveguide Size	Flange 1	Flange 2	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
75.0 - 110.0	WR-10	Round Cover UG-387/U-Mod	Round Cover UG-387/U-Mod	PEWAD5000	\$1,112.30	See Web for Volume Pricing	72
60.0 - 90.0	WR-12	Round Cover UG-387/U	Round Cover UG-387/U	PEWAD5001	\$1,006.21		73
50.0 - 75.0	WR-15	Round Cover UG-385/U	Round Cover UG-385/U	PEWAD5002	\$1,006.21		74
40.0 - 60.0	WR-19	Round Cover UG-383/U-Mod	Round Cover UG-383/U-Mod	PEWAD5003	\$991.36		75
			Round Cover UG-383/U	PEWAD5007A	\$924.78		76
33.0 - 50.0	WR-22	Round Cover UG-383/U	Round Cover UG-383/U	PEWAD5004	\$991.36		77
			Square Cover UG-599/U	PEWAD5008	\$803.46		78
26.5 - 40.0	WR-28	Square Cover UG-599/U	Square Cover UG-599/U	PEWAD5005	\$1,126.96		79
22.0 - 33.0	WR-34	Square Cover UG-1530/U	Square Cover UG-1530/U	PEWAD5009	\$818.50		80
			Square Cover UG-595/U	PEWAD5010	\$841.02		81
18.0 - 26.5	WR-42	Square Cover UG-595/U	Square Cover UG-595/U	PEWAD5006	\$1,126.96		82
15.0 - 22.0	WR-51	Square Cover	Square Cover	PEWAD5011	\$843.40		83
12.4 - 18.0	WR-62	Square Cover UG-1665/U	Square Cover UG-1665/U	PEWAD5012	\$893.57		84
10.0 - 15.0	WR-75	Square Cover	Square Cover	PEWAD5013	\$919.87		85
8.2 - 12.4	WR-90	Square Cover UG-39/U	Square Cover UG-39/U	PEWAD5014	\$953.66		86
		CPR-90G	CPR-90G	PEWAD5015	\$953.66		87
7.05 - 10.0	WR-112	Square Cover UG-51/U	Square Cover UG-51/U	PEWAD5016	\$991.36		88
		CPR-112G	CPR-112G	PEWAD5017	\$1,006.21		89
5.85 - 8.2	WR-137	Square Cover UG-344/U	Square Cover UG-344/U	PEWAD5018	\$1,058.77		90
		CPR-137G	CPR-137G	PEWAD5019	\$1,058.77		91

WAVEGUIDE CONVERTER MIXERS

Down Converter



RF/LO Frequency (GHz.)	IF Frequency (GHz.)	LO Power (dBm)	Typ Conv. Loss (dB)	RF & LO Waveguide Type	IF Connector	ECCN	Model No	1	2-4	5-9	10+	ROW
26.5 - 40	DC - 18	15	6	WR-28 UG-599/U	SMA Female	EAR99	PE12D1005	\$3,834.26	\$3,680.89	\$3,527.52	\$3,374.15	92
33 - 50	DC - 18	15	7	WR-22 UG-383/U	SMA Female	EAR99	PE12D1004	\$4,417.94	\$4,241.22	\$4,064.50	\$3,887.79	93
50 - 75	DC - 18	15	8	WR-15 UG-385/U	SMA Female	EAR99	PE12D1002	\$4,984.84	\$4,785.45	\$4,586.05	\$4,386.66	94
60 - 90	DC - 18	15	9	WR-12 UG-387/U	SMA Female	EAR99	PE12D1001	\$4,638.43	\$4,452.89	\$4,267.36	\$4,081.82	95
75 - 110	DC - 18	15	9	WR-10 UG-387/U-Mod	SMA Female	EAR99	PE12D1000	\$6,521.71	\$6,260.84	\$5,999.97	\$5,739.10	96

Up Converter



RF/LO Frequency (GHz.)	IF Frequency (GHz.)	LO Power (dBm)	Typ Conv. Loss (dB)	RF & LO Waveguide Type	IF Connector	ECCN	Model No	1	2-4	5-9	10+	ROW
26.5 - 40	DC - 18	15	6	WR-28 UG-599/U	SMA Female	EAR99	PE13U1005	\$4,151.05	\$3,985.01	\$3,818.97	\$3,652.92	97
33 - 50	DC - 18	15	7	WR-22 UG-383/U	SMA Female	EAR99	PE13U1004	\$5,023.61	\$4,822.67	\$4,621.72	\$4,420.78	98
40 - 60	DC - 18	15	7	WR-19 UG-383/U	SMA Female	EAR99	PE13U1003	\$5,194.53	\$4,986.75	\$4,778.97	\$4,571.19	99
50 - 75	DC - 18	15	8	WR-15 UG-385/U	SMA Female	EAR99	PE13U1002	\$5,983.77	\$5,744.42	\$5,505.07	\$5,265.72	1
60 - 90	DC - 18	15	9	WR-12 UG-387/U	SMA Female	EAR99	PE13U1001	\$5,540.23	\$5,318.62	\$5,097.01	\$4,875.40	2
75 - 110	DC - 18	15	9	WR-10 UG-387/U	SMA Female	EAR99	PE13U1000	\$5,579.55	\$5,356.37	\$5,133.19	\$4,910.00	3

WAVEGUIDE COUPLERS

Broadwall



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	75 - 110	1.1	1.2:1	20	30	Round Cover UG-387/U-Mod	EAR99	PE-W10CP001-20	\$2,520.34	\$2,419.53	\$2,318.71	\$2,217.90	4
				20	30		EAR99	PE-W10CP003-20	\$2,797.74	\$2,685.83	\$2,573.92	\$2,462.01	5
		1.4		10	30	EAR99	PE-W10CP001-10	\$2,520.34	\$2,419.53	\$2,318.71	\$2,217.90	6	
				10	30	EAR99	PE-W10CP003-10	\$2,797.74	\$2,685.83	\$2,573.92	\$2,462.01	7	
WR-12	60 - 90	1	1.2:1	20	30	Round Cover UG-387/U	EAR99	PEW10CP10-20	\$2,653.00	\$2,546.88	\$2,440.76	\$2,334.64	8
				20	30		EAR99	PE-W12CP001-20	\$2,682.26	\$2,574.97	\$2,467.68	\$2,360.39	9
		1.4		20	30	EAR99	PE-W12CP003-20	\$2,714.84	\$2,606.25	\$2,497.65	\$2,389.06	10	
				10	30	EAR99	PE-W12CP001-10	\$2,682.26	\$2,574.97	\$2,467.68	\$2,360.39	11	
WR-15	50 - 75	1	1.1:1	20	30	Round Cover UG-385/U	EAR99	PE-W12CP003-10	\$2,823.43	\$2,710.49	\$2,597.56	\$2,484.62	12
				20	30		EAR99	PEWCP1080-20	\$2,515.43	\$2,414.81	\$2,314.20	\$2,213.58	13
		1.4		20	30	EAR99	PE-W15CP001-20	\$2,613.53	\$2,508.99	\$2,404.45	\$2,299.91	14	
				10	30	EAR99	PE-W15CP001-10	\$2,528.32	\$2,427.19	\$2,326.05	\$2,224.92	15	
WR-19	40 - 60	0.8	1.2:1	10	30	Round Cover UG-383/U	EAR99	PE-W15CP003-10	\$2,528.32	\$2,427.19	\$2,326.05	\$2,224.92	16
				20	30		EAR99	PE-W19CP003-10	\$2,642.30	\$2,536.61	\$2,430.92	\$2,325.22	17
		1		20	30	EAR99	PE-W19CP003-20	\$2,590.49	\$2,486.87	\$2,383.25	\$2,279.63	18	
				10	30	EAR99	PE-W19CP001-20	\$2,333.65	\$2,240.30	\$2,146.96	\$2,053.61	19	
WR-22	33 - 50	0.8	1.1:1	20	30	Round Cover UG-383/U	EAR99	PE-W19CP001-10	\$2,333.65	\$2,240.30	\$2,146.96	\$2,053.61	20
				20	30		EAR99	PEW22CP10-20	\$2,397.79	\$2,301.88	\$2,205.97	\$2,110.06	21
		1		20	30	EAR99	PE-W22CP003-20	\$2,629.47	\$2,524.29	\$2,419.11	\$2,313.93	22	
				10	30	EAR99	PEWCP1079-10	\$2,491.03	\$2,391.39	\$2,291.75	\$2,192.11	23	
1.2	1.2:1	10	30	EAR99	PE-W22CP001-10	\$2,528.32	\$2,427.19	\$2,326.05	\$2,224.92	24			



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Broadwall



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-28	26.5 - 40	0.6	1.1:1	20	30	Square Cover UG-599/U	EAR99	PEW28CP010-20	\$2,445.43	\$2,347.61	\$2,249.80	\$2,151.98	25
		0.7	1.05:1	20	40		EAR99	PE-W28CP002-20	\$2,445.43	\$2,347.61	\$2,249.80	\$2,151.98	26
		1	1.2:1	10	30		EAR99	PE-W28CP003-10	\$2,543.25	\$2,441.52	\$2,339.79	\$2,238.06	27
WR-34	22 - 33	0.15	1.05:1	20	35	Square Cover UG-1530/U	EAR99	PEWCP1006	\$1,645.92	\$1,580.08	\$1,514.25	\$1,448.41	29
				30	35		EAR99	PEWCP1007	\$1,645.92	\$1,580.08	\$1,514.25	\$1,448.41	30
		0.35	10	35	EAR99	PEWCP1005	\$1,584.14	\$1,520.77	\$1,457.41	\$1,394.04	31		
WR-42	18 - 26.5	0.6	1.2:1	20	30	Square Cover UG-595/U	EAR99	PE-W42CP002-20	\$2,445.43	\$2,347.61	\$2,249.80	\$2,151.98	32
				20	30		EAR99	PE-W42CP004-20	\$2,505.73	\$2,405.50	\$2,305.27	\$2,205.04	33
		1	10	30	EAR99	PE-W42CP004-10	\$2,505.73	\$2,405.50	\$2,305.27	\$2,205.04	34		
WR-51	15 - 22	0.15	1.05:1	10	35	Square Cover	EAR99	PEWCP1008	\$1,614.41	\$1,549.83	\$1,485.26	\$1,420.68	35
				20	35		EAR99	PEWCP1009	\$1,614.41	\$1,549.83	\$1,485.26	\$1,420.68	36
				30	35		EAR99	PEWCP1010	\$1,678.98	\$1,611.82	\$1,544.66	\$1,477.50	37
WR-62	12.4 - 18	0.15	1.05:1	10	40	Square Cover UG-419/U	EAR99	PEWCP1011	\$1,441.15	\$1,383.50	\$1,325.86	\$1,268.21	38
				20	40		EAR99	PEWCP1012	\$1,498.79	\$1,438.84	\$1,378.89	\$1,318.94	39
				30	40		EAR99	PEWCP1013	\$1,498.79	\$1,438.84	\$1,378.89	\$1,318.94	40
WR-75	10 - 15	0.15	1.05:1	10	40	Square Cover	EAR99	PEWCP1014	\$1,388.99	\$1,333.43	\$1,277.87	\$1,222.31	41
				20	40		EAR99	PEWCP1015	\$1,388.99	\$1,333.43	\$1,277.87	\$1,222.31	42
				30	40		EAR99	PEWCP1016	\$1,523.37	\$1,462.44	\$1,401.50	\$1,340.57	43
WR-90	8.2 - 12.4	0.15	1.05:1	10	40	Square Cover UG-39/U	EAR99	PEWCP1017	\$1,687.17	\$1,619.68	\$1,552.20	\$1,484.71	44
				10	40	CPR-90G	EAR99	PEWCP1020	\$1,545.81	\$1,483.98	\$1,422.15	\$1,360.31	45
				20	40	Square Cover UG-39/U	EAR99	PEWCP1018	\$1,622.29	\$1,557.40	\$1,492.51	\$1,427.62	46
				20	40	CPR-90G	EAR99	PEWCP1021	\$1,545.81	\$1,483.98	\$1,422.15	\$1,360.31	47
				30	40	Square Cover UG-39/U	EAR99	PEWCP1019	\$1,687.17	\$1,619.68	\$1,552.20	\$1,484.71	48
WR-112	7.05 - 10	0.15	1.05:1	30	40	CPR-90G	EAR99	PEWCP1022	\$1,568.96	\$1,506.20	\$1,443.44	\$1,380.68	49
				10	40	Square Cover UG-51/U	EAR99	PEWCP1023A	\$1,500.67	\$1,440.64	\$1,380.62	\$1,320.59	50
				10	40	CPR-112G	EAR99	PEWCP1026	\$1,471.15	\$1,412.30	\$1,353.46	\$1,294.61	51
				20	40	Square Cover UG-51/U	EAR99	PEWCP1024	\$1,418.88	\$1,362.12	\$1,305.37	\$1,248.61	52
				20	40	CPR-112G	EAR99	PEWCP1027	\$1,471.15	\$1,412.30	\$1,353.46	\$1,294.61	53
WR-137	5.85 - 8.2	0.15	1.05:1	30	40	Square Cover UG-51/U	EAR99	PEWCP1025	\$1,496.29	\$1,436.44	\$1,376.59	\$1,316.74	54
				30	40	CPR-112G	EAR99	PEWCP1028	\$1,471.15	\$1,412.30	\$1,353.46	\$1,294.61	55
				10	40	Round Cover UG-344/U	EAR99	PEWCP1029	\$1,501.01	\$1,440.97	\$1,380.93	\$1,320.89	56
				10	40	CPR-137G	EAR99	PEWCP1032	\$1,576.55	\$1,513.49	\$1,450.43	\$1,387.36	57
				20	40	Round Cover UG-344/U	EAR99	PEWCP1030	\$1,501.01	\$1,440.97	\$1,380.93	\$1,320.89	58
WR-34	22 - 33	0.1	1.05:1	20	20	Square Cover UG-1530/U	EAR99	PEWCP1035	\$1,050.83	\$998.29	\$945.75	\$903.71	62
				30	20		EAR99	PEWCP1036	\$1,094.80	\$1,040.06	\$985.32	\$941.53	63
				40	25		EAR99	PEWCP1037	\$1,066.57	\$1,013.24	\$959.91	\$917.25	64
WR-42	18 - 26.5	0.1	1.05:1	50	10	Square Cover UG-595/U	EAR99	PEWCP1038	\$1,050.83	\$998.29	\$945.75	\$903.71	65
				20	30		EAR99	PEWCP1039	\$850.01	\$807.51	\$765.01	\$731.01	66
				30	20		EAR99	PEWCP1040	\$918.48	\$872.56	\$826.63	\$789.89	67
				40	20		EAR99	PEWCP1041	\$837.46	\$795.59	\$753.71	\$720.22	68
				50	10		EAR99	PEWCP1042	\$918.48	\$872.56	\$826.63	\$789.89	69

Crossguide*



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1-4	5-9	10-24	25+	ROW
WR-34	22 - 33	0.1	1.05:1	20	20	Square Cover UG-1530/U	EAR99	PEWCP1035	\$1,050.83	\$998.29	\$945.75	\$903.71	62
				30	20		EAR99	PEWCP1036	\$1,094.80	\$1,040.06	\$985.32	\$941.53	63
				40	25		EAR99	PEWCP1037	\$1,066.57	\$1,013.24	\$959.91	\$917.25	64
WR-42	18 - 26.5	0.1	1.05:1	50	10	Square Cover UG-595/U	EAR99	PEWCP1038	\$1,050.83	\$998.29	\$945.75	\$903.71	65
				20	30		EAR99	PEWCP1039	\$850.01	\$807.51	\$765.01	\$731.01	66
				30	20		EAR99	PEWCP1040	\$918.48	\$872.56	\$826.63	\$789.89	67
				40	20		EAR99	PEWCP1041	\$837.46	\$795.59	\$753.71	\$720.22	68
				50	10		EAR99	PEWCP1042	\$918.48	\$872.56	\$826.63	\$789.89	69

*These WG crossguide couplers are available as assemblies with termination and/or with WG to Coax Adapters, see WG Coupler Assemblies or visit our website

Crossguide*



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-51	15 - 22	0.1	1.05:1	20	20	Square Cover	EAR99	PEWCP1043	\$1,293.51		70
				30	30		EAR99	PEWCP1044	\$1,293.51		71
				40	30		EAR99	PEWCP1045	\$1,293.51		72
				50	10		EAR99	PEWCP1046	\$1,293.51		73
WR-62	12.4 - 18	0.1	1.05:1	20	20	Square Cover UG-419/U	EAR99	PEWCP1047	\$883.15		74
				30	10		EAR99	PEWCP1048	\$883.15		75
				40	30		EAR99	PEWCP1049	\$837.46		76
				50	10		EAR99	PEWCP1050	\$837.46		77
WR-75	10 - 15	0.1	1.05:1	50	10	Square Cover	EAR99	PEWCP1054	\$842.78		78
				20	25		EAR99	PEWCP1051	\$875.66		79
				30	25		EAR99	PEWCP1052A	\$868.91		80
				40	15		EAR99	PEWCP1053	\$888.77		81
WR-90	8.2 - 12.4	0.1	1.05:1	20	20	Square Cover UG-39/U	EAR99	PEWCP1055	\$793.93	See Web for Volume Pricing	82
				20	25	CPR-90G	EAR99	PEWCP1059	\$880.12		83
				30	20	Square Cover UG-39/U	EAR99	PEWCP1056	\$833.74		84
				30	20	CPR-90G	EAR99	PEWCP1060	\$880.12		85
				40	10	Square Cover UG-39/U	EAR99	PEWCP1057	\$900.92		86
				40	10	CPR-90G	EAR99	PEWCP1061	\$880.12		87
				50	10	Square Cover UG-39/U	EAR99	PEWCP1058	\$900.92		88
				50	10	CPR-90G	EAR99	PEWCP1062	\$951.03		89
WR-112	7.05 - 10	0.1	1.05:1	20	45	Square Cover UG-51/U	EAR99	PEWCP1063	\$959.04		90
				20	25	CPR-112G	EAR99	PEWCP1067	\$954.80		91
				30	25	Square Cover UG-51/U	EAR99	PEWCP1064	\$996.45		92
				30	25	CPR-112G	EAR99	PEWCP1068	\$969.10		93
				40	20	Square Cover UG-51/U	EAR99	PEWCP1065	\$944.90		94
				40	20	CPR-112G	EAR99	PEWCP1069	\$954.80		95
				50	10	Square Cover UG-51/U	EAR99	PEWCP1066	\$1,036.32		96
				50	10	CPR-112G	EAR99	PEWCP1070	\$1,047.18		97
WR-137	5.85 - 8.2	0.1	1.05:1	20	25	Round Cover UG-344/U	EAR99	PEWCP1071	\$960.13		98
				20	20	CPR-137G	EAR99	PEWCP1075	\$917.47		99
				30	20	Round Cover UG-344/U	EAR99	PEWCP1072	\$960.13		1
				30	20	CPR-137G	EAR99	PEWCP1076	\$931.21		2
				40	20	Round Cover UG-344/U	EAR99	PEWCP1073	\$960.13		3
				40	20	CPR-137G	EAR99	PEWCP1077	\$917.47		4
				50	10	Round Cover UG-344/U	EAR99	PEWCP1074	\$960.13		5
				50	10	CPR-137G	EAR99	PEWCP1078	\$917.47		6

Crossguide* with Termination



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-34	22 - 33	0.1	1.05:1	20	20	Square Cover UG-1530/U	EAR99	PEWCT1000	\$1,657.10	\$1,590.82	\$1,524.53	\$1,458.25	7
				30	20		EAR99	PEWCT1001	\$1,657.10	\$1,590.82	\$1,524.53	\$1,458.25	8
				40	25		EAR99	PEWCT1002	\$1,747.50	\$1,677.60	\$1,607.70	\$1,537.80	9
				50	10		EAR99	PEWCT1003	\$1,657.10	\$1,590.82	\$1,524.53	\$1,458.25	10
WR-42	18 - 26.5	0.1	1.05:1	20	30	Square Cover UG-595/U	EAR99	PEWCT1004	\$1,410.66	\$1,354.23	\$1,297.81	\$1,241.38	11
				30	20		EAR99	PEWCT1005	\$1,410.66	\$1,354.23	\$1,297.81	\$1,241.38	12
				40	20		EAR99	PEWCT1006	\$1,410.66	\$1,354.23	\$1,297.81	\$1,241.38	13
				50	10		EAR99	PEWCT1007	\$1,410.66	\$1,354.23	\$1,297.81	\$1,241.38	14

*These WG crossguide couplers are available as assemblies with termination and/or with WG to Coax Adapters, see WG Coupler Assemblies or visit our website

Crossguide* with Termination



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-51	15 - 22	0.1	1.05:1	20	20	Square Cover	EAR99	PEWCT1008	\$1,880.01	\$1,804.81	\$1,729.61	\$1,654.41	15
				30	30			PEWCT1009	\$1,880.01	\$1,804.81	\$1,729.61	\$1,654.41	16
				40	30			PEWCT1010	\$1,880.01	\$1,804.81	\$1,729.61	\$1,654.41	17
				50	10			PEWCT1011	\$1,880.01	\$1,804.81	\$1,729.61	\$1,654.41	18
WR-62	12.4 - 18	0.1	1.05:1	20	20	Square Cover UG-419/U	EAR99	PEWCT1012	\$1,395.72	\$1,339.89	\$1,284.06	\$1,228.23	19
				30	10			PEWCT1013	\$1,471.87	\$1,413.00	\$1,354.12	\$1,295.25	20
				40	30			PEWCT1014	\$1,395.72	\$1,339.89	\$1,284.06	\$1,228.23	21
				50	10			PEWCT1015	\$1,395.72	\$1,339.89	\$1,284.06	\$1,228.23	22
WR-75	10 - 15	0.1	1.05:1	50	10	Square Cover	EAR99	PEWCT1019	\$1,481.31	\$1,422.06	\$1,362.81	\$1,303.55	23
				20	25			PEWCT1016	\$1,481.31	\$1,422.06	\$1,362.81	\$1,303.55	24
				30	25			PEWCT1017	\$1,404.68	\$1,348.49	\$1,292.31	\$1,236.12	25
				40	15			PEWCT1018	\$1,404.68	\$1,348.49	\$1,292.31	\$1,236.12	26
WR-90	8.2 - 12.4	0.1	1.05:1	20	20	Square Cover UG-39/U	EAR99	PEWCT1020	\$1,372.58	\$1,317.68	\$1,262.77	\$1,207.87	27
				20	25	CPR-90G	EAR99	PEWCT1024	\$1,441.28	\$1,383.63	\$1,325.98	\$1,268.33	28
				30	20	Square Cover UG-39/U	EAR99	PEWCT1021	\$1,372.58	\$1,317.68	\$1,262.77	\$1,207.87	29
				30	20	CPR-90G	EAR99	PEWCT1025	\$1,441.28	\$1,383.63	\$1,325.98	\$1,268.33	30
				40	10	Square Cover UG-39/U	EAR99	PEWCT1022	\$1,372.58	\$1,317.68	\$1,262.77	\$1,207.87	31
				40	10	CPR-90G	EAR99	PEWCT1026	\$1,441.28	\$1,383.63	\$1,325.98	\$1,268.33	32
				50	10	Square Cover UG-39/U	EAR99	PEWCT1023	\$1,393.13	\$1,337.40	\$1,281.68	\$1,225.95	33
				50	10	CPR-90G	EAR99	PEWCT1027	\$1,441.28	\$1,383.63	\$1,325.98	\$1,268.33	34
WR-112	7.05 - 10	0.1	1.05:1	20	45	Square Cover UG-51/U	EAR99	PEWCT1028	\$1,530.89	\$1,469.65	\$1,408.42	\$1,347.18	35
				20	25	CPR-112G	EAR99	PEWCT1032	\$1,548.06	\$1,486.14	\$1,424.22	\$1,362.29	36
				30	25	Square Cover UG-51/U	EAR99	PEWCT1029	\$1,616.39	\$1,551.73	\$1,487.08	\$1,422.42	37
				30	25	CPR-112G	EAR99	PEWCT1033	\$1,548.06	\$1,486.14	\$1,424.22	\$1,362.29	38
				40	20	Square Cover UG-51/U	EAR99	PEWCT1030	\$1,532.76	\$1,471.45	\$1,410.14	\$1,348.83	39
				40	20	CPR-112G	EAR99	PEWCT1034	\$1,548.06	\$1,486.14	\$1,424.22	\$1,362.29	40
				50	10	Square Cover UG-51/U	EAR99	PEWCT1031	\$1,532.76	\$1,471.45	\$1,410.14	\$1,348.83	41
				50	10	CPR-112G	EAR99	PEWCT1035	\$1,548.06	\$1,486.14	\$1,424.22	\$1,362.29	42
WR-137	5.85 - 8.2	0.1	1.05:1	20	25	Round Cover UG-344/U	EAR99	PEWCT1036	\$1,579.42	\$1,516.24	\$1,453.07	\$1,389.89	43
				20	20	CPR-137G	EAR99	PEWCT1040	\$1,541.34	\$1,479.69	\$1,418.03	\$1,356.38	44
				30	20	Round Cover UG-344/U	EAR99	PEWCT1037	\$1,579.42	\$1,516.24	\$1,453.07	\$1,389.89	45
				30	20	CPR-137G	EAR99	PEWCT1041	\$1,541.34	\$1,479.69	\$1,418.03	\$1,356.38	46
				40	20	Round Cover UG-344/U	EAR99	PEWCT1038	\$1,579.42	\$1,516.24	\$1,453.07	\$1,389.89	47
				40	20	CPR-137G	EAR99	PEWCT1042	\$1,541.34	\$1,479.69	\$1,418.03	\$1,356.38	48
				50	10	Round Cover UG-344/U	EAR99	PEWCT1039	\$1,579.42	\$1,516.24	\$1,453.07	\$1,389.89	49
				50	10	CPR-137G	EAR99	PEWCT1043	\$1,541.34	\$1,479.69	\$1,418.03	\$1,356.38	50

Crossguide* with Termination and WG to Coax Adapter



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-34	22 - 33	0.1	1.05:1	20	20	Square Cover UG-1530/U	EAR99	PEWCT1044	\$2,312.87	\$2,220.36	\$2,127.84	\$2,035.33	51
				30	20			PEWCT1045	\$2,347.49	\$2,253.59	\$2,159.69	\$2,065.79	52
				40	25			PEWCT1046	\$2,312.87	\$2,220.36	\$2,127.84	\$2,035.33	53
				50	10			PEWCT1047	\$2,312.87	\$2,220.36	\$2,127.84	\$2,035.33	54
WR-42	18 - 26.5	0.1	1.05:1	20	30	Square Cover UG-595/U	EAR99	PEWCT1048	\$2,092.03	\$2,008.35	\$1,924.67	\$1,840.99	55
				30	20			PEWCT1049	\$2,123.36	\$2,038.43	\$1,953.49	\$1,868.56	56
				40	20			PEWCT1050	\$2,092.03	\$2,008.35	\$1,924.67	\$1,840.99	57
				50	10		EAR99	PEWCT1051	\$2,092.03	\$2,008.35	\$1,924.67	\$1,840.99	58

*These WG crossguide couplers are available as assemblies with termination and/or with WG to Coax Adapters, see WG Coupler Assemblies or visit our website

Crossguide* with Termination and WG to Coax Adapter



See Our Website For Current Pricing & Real-Time Stock Availability!

WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-51	15 - 22	0.1	1.05:1	20	20	Square Cover	EAR99	PEWCT1052	\$2,473.42	\$2,374.48	\$2,275.55	\$2,176.61	59
				30	30		EAR99	PEWCT1053	\$2,473.42	\$2,374.48	\$2,275.55	\$2,176.61	60
				40	30		EAR99	PEWCT1054	\$2,473.42	\$2,374.48	\$2,275.55	\$2,176.61	61
				50	10		EAR99	PEWCT1055	\$2,473.42	\$2,374.48	\$2,275.55	\$2,176.61	62
WR-62	12.4 - 18	0.1	1.05:1	20	20	Square Cover UG-419/U	EAR99	PEWCT1056	\$1,956.59	\$1,878.33	\$1,800.06	\$1,721.80	63
				30	10		EAR99	PEWCT1057	\$2,114.21	\$2,029.64	\$1,945.07	\$1,860.50	64
				40	30		EAR99	PEWCT1058	\$1,927.73	\$1,850.62	\$1,773.51	\$1,696.40	65
				50	10		EAR99	PEWCT1059	\$1,956.59	\$1,878.33	\$1,800.06	\$1,721.80	66
WR-75	10 - 15	0.1	1.05:1	40	15	Square Cover	EAR99	PEWCT1066	\$2,189.68	\$2,102.09	\$2,014.51	\$1,926.92	67
				50	10		EAR99	PEWCT1063	\$2,091.37	\$2,007.72	\$1,924.06	\$1,840.41	68
				50	10		EAR99	PEWCT1067	\$2,026.43	\$1,945.37	\$1,864.32	\$1,783.26	69
				20	25		EAR99	PEWCT1060	\$1,944.28	\$1,866.51	\$1,788.74	\$1,710.97	70
				20	25		EAR99	PEWCT1064	\$2,026.43	\$1,945.37	\$1,864.32	\$1,783.26	71
				30	25		EAR99	PEWCT1061	\$2,050.35	\$1,968.34	\$1,886.32	\$1,804.31	72
				30	25		EAR99	PEWCT1065	\$1,996.54	\$1,916.68	\$1,836.82	\$1,756.96	73
				40	15		EAR99	PEWCT1062	\$2,132.37	\$2,047.08	\$1,961.78	\$1,876.49	74
WR-90	8.2 - 12.4	0.1	1.05:1	20	20	Square Cover UG-39/U	EAR99	PEWCT1068	\$2,035.70	\$1,954.27	\$1,872.84	\$1,791.42	75
				20	25	CPR-90G	EAR99	PEWCT1072	\$2,000.27	\$1,920.26	\$1,840.25	\$1,760.24	76
				20	20	Square Cover UG-39/U	EAR99	PEWCT1076	\$2,162.18	\$2,075.69	\$1,989.21	\$1,902.72	77
				20	25	CPR-90G	EAR99	PEWCT1080	\$2,071.91	\$1,989.03	\$1,906.16	\$1,823.28	78
				30	20	Square Cover UG-39/U	EAR99	PEWCT1069	\$2,035.70	\$1,954.27	\$1,872.84	\$1,791.42	79
				30	20	CPR-90G	EAR99	PEWCT1073	\$2,000.27	\$1,920.26	\$1,840.25	\$1,760.24	80
				30	20	Square Cover UG-39/U	EAR99	PEWCT1077	\$1,971.47	\$1,892.61	\$1,813.75	\$1,734.89	81
				30	20	CPR-90G	EAR99	PEWCT1081	\$2,041.34	\$1,959.69	\$1,878.03	\$1,796.38	82
				40	10	Square Cover UG-39/U	EAR99	PEWCT1070	\$1,930.39	\$1,853.17	\$1,775.96	\$1,698.74	83
				40	10	CPR-90G	EAR99	PEWCT1074	\$2,000.27	\$1,920.26	\$1,840.25	\$1,760.24	84
				40	10	Square Cover UG-39/U	EAR99	PEWCT1078	\$2,079.02	\$1,995.86	\$1,912.70	\$1,829.54	85
				40	10	CPR-90G	EAR99	PEWCT1082	\$2,041.34	\$1,959.69	\$1,878.03	\$1,796.38	86
				50	10	Square Cover UG-39/U	EAR99	PEWCT1071	\$1,930.39	\$1,853.17	\$1,775.96	\$1,698.74	87
				50	10	CPR-90G	EAR99	PEWCT1075	\$2,000.27	\$1,920.26	\$1,840.25	\$1,760.24	88
				50	10	Square Cover UG-39/U	EAR99	PEWCT1079	\$2,079.02	\$1,995.86	\$1,912.70	\$1,829.54	89
				50	10	CPR-90G	EAR99	PEWCT1083	\$2,041.34	\$1,959.69	\$1,878.03	\$1,796.38	90
WR-112	7.05 - 10	0.1	1.05:1	20	45	Square Cover UG-51/U	EAR99	PEWCT1084	\$2,240.71	\$2,151.08	\$2,061.45	\$1,971.82	91
				20	25	CPR-112G	EAR99	PEWCT1088	\$2,142.16	\$2,056.47	\$1,970.79	\$1,885.10	92
				20	45	Square Cover UG-51/U	EAR99	PEWCT1092	\$2,139.73	\$2,054.14	\$1,968.55	\$1,882.96	93
				20	25	CPR-112G	EAR99	PEWCT1096	\$2,157.11	\$2,070.83	\$1,984.54	\$1,898.26	94
				30	25	Square Cover UG-51/U	EAR99	PEWCT1085	\$2,124.79	\$2,039.80	\$1,954.81	\$1,869.82	95
				30	25	CPR-112G	EAR99	PEWCT1089	\$2,142.16	\$2,056.47	\$1,970.79	\$1,885.10	96
				30	25	Square Cover UG-51/U	EAR99	PEWCT1093	\$2,139.73	\$2,054.14	\$1,968.55	\$1,882.96	97
				30	25	CPR-112G	EAR99	PEWCT1097	\$2,157.11	\$2,070.83	\$1,984.54	\$1,898.26	98
				40	20	Square Cover UG-51/U	EAR99	PEWCT1086	\$2,124.79	\$2,039.80	\$1,954.81	\$1,869.82	99
				40	20	CPR-112G	EAR99	PEWCT1090	\$2,142.16	\$2,056.47	\$1,970.79	\$1,885.10	1
				40	20	Square Cover UG-51/U	EAR99	PEWCT1094	\$2,139.73	\$2,054.14	\$1,968.55	\$1,882.96	2
				40	20	CPR-112G	EAR99	PEWCT1098	\$2,157.11	\$2,070.83	\$1,984.54	\$1,898.26	3
				50	10	Square Cover UG-51/U	EAR99	PEWCT1087	\$2,124.79	\$2,039.80	\$1,954.81	\$1,869.82	4
				50	10	CPR-112G	EAR99	PEWCT1091	\$2,142.16	\$2,056.47	\$1,970.79	\$1,885.10	5
				50	10	Square Cover UG-51/U	EAR99	PEWCT1095	\$2,139.73	\$2,054.14	\$1,968.55	\$1,882.96	6
				50	10	CPR-112G	EAR99	PEWCT1099	\$2,365.79	\$2,271.16	\$2,176.53	\$2,081.90	7
WR-137	5.85 - 8.2	0.1	1.05:1	20	25	Round Cover UG-344/U	EAR99	PEWCT1100	\$2,196.03	\$2,108.19	\$2,020.35	\$1,932.51	8
				20	20	CPR-137G	EAR99	PEWCT1104	\$2,157.09	\$2,070.81	\$1,984.52	\$1,898.24	9
				20	25	Round Cover UG-344/U	EAR99	PEWCT1108	\$2,199.78	\$2,111.79	\$2,023.80	\$1,935.81	10

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Crossguide* with Termination and WG to Coax Adapter



WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	R O W
WR-137	5.85 - 8.2	0.1	1.05:1	20	20	CPR-137G	EAR99	PEWCT1112	\$2,193.19	\$2,105.46	\$2,017.73	\$1,930.01	11
				30	20	Round Cover UG-344/U	EAR99	PEWCT1101	\$2,196.03	\$2,108.19	\$2,020.35	\$1,932.51	12
				30	20	CPR-137G	EAR99	PEWCT1105	\$2,189.38	\$2,101.80	\$2,014.23	\$1,926.65	13
				30	20	Round Cover UG-344/U	EAR99	PEWCT1109	\$2,199.78	\$2,111.79	\$2,023.80	\$1,935.81	14
				30	20	CPR-137G	EAR99	PEWCT1113	\$2,160.84	\$2,074.41	\$1,987.97	\$1,901.54	15
				40	20	Round Cover UG-344/U	EAR99	PEWCT1102	\$2,196.03	\$2,108.19	\$2,020.35	\$1,932.51	16
				40	20	CPR-137G	EAR99	PEWCT1106	\$2,157.09	\$2,070.81	\$1,984.52	\$1,898.24	17
				40	20	Round Cover UG-344/U	EAR99	PEWCT1110	\$2,319.79	\$2,227.00	\$2,134.21	\$2,041.42	18
				40	20	CPR-137G	EAR99	PEWCT1114	\$2,369.89	\$2,275.09	\$2,180.30	\$2,085.50	19
				50	10	Round Cover UG-344/U	EAR99	PEWCT1103	\$2,196.03	\$2,108.19	\$2,020.35	\$1,932.51	20
				50	10	CPR-137G	EAR99	PEWCT1107	\$2,189.38	\$2,101.80	\$2,014.23	\$1,926.65	21
				50	10	Round Cover UG-344/U	EAR99	PEWCT1111	\$2,199.78	\$2,111.79	\$2,023.80	\$1,935.81	22
50	10	CPR-137G	EAR99	PEWCT1115	\$2,160.84	\$2,074.41	\$1,987.97	\$1,901.54	23				

WAVEGUIDE COUPLER ASSEMBLIES

WG Crossguide Coupler	WG Crossguide Coupler with Termination	WG Crossguide Coupler with Termination & Coax Adapter SMA/ Type N	Conn. Type	WG Crossguide Coupler	WG Crossguide Coupler with Termination	WG Crossguide Coupler with Termination & Coax Adapter SMA/ Type N	Conn. Type
PEWCP1035	PEWCT1000	PEWCT1044	2.92mm	PEWCP1061	PEWCT1026	PEWCT1074	SMA
PEWCP1036	PEWCT1001	PEWCT1045	2.92mm	PEWCP1062	PEWCT1027	PEWCT1082	N
PEWCP1037	PEWCT1002	PEWCT1046	2.92mm			PEWCT1075	SMA
PEWCP1038	PEWCT1003	PEWCT1047	2.92mm	PEWCP1063	PEWCT1028	PEWCT1083	N
PEWCP1039	PEWCT1004	PEWCT1048	SMA			PEWCT1084	SMA
PEWCP1040	PEWCT1005	PEWCT1049	SMA	PEWCP1064	PEWCT1029	PEWCT1092	N
PEWCP1041	PEWCT1006	PEWCT1050	SMA			PEWCT1085	SMA
PEWCP1042	PEWCT1007	PEWCT1051	SMA	PEWCP1065	PEWCT1030	PEWCT1093	N
PEWCP1043	PEWCT1008	PEWCT1052	SMA			PEWCT1086	SMA
PEWCP1044	PEWCT1009	PEWCT1053	SMA	PEWCP1066	PEWCT1031	PEWCT1094	N
PEWCP1045	PEWCT1010	PEWCT1054	SMA			PEWCT1087	SMA
PEWCP1046	PEWCT1011	PEWCT1055	SMA	PEWCP1067	PEWCT1032	PEWCT1095	N
PEWCP1047	PEWCT1012	PEWCT1056	SMA			PEWCT1088	SMA
PEWCP1048	PEWCT1013	PEWCT1057	SMA	PEWCP1068	PEWCT1033	PEWCT1096	N
PEWCP1049	PEWCT1014	PEWCT1058	SMA			PEWCT1089	SMA
PEWCP1050	PEWCT1015	PEWCT1059	SMA	PEWCP1069	PEWCT1034	PEWCT1097	N
PEWCP1051	PEWCT1016	PEWCT1060	SMA			PEWCT1090	SMA
		PEWCT1064	N	PEWCT1098	N		
PEWCP1052	PEWCT1017	PEWCT1061	SMA	PEWCP1070	PEWCT1035	PEWCT1091	SMA
		PEWCT1065	N			PEWCT1099	N
PEWCP1053	PEWCT1018	PEWCT1062	SMA	PEWCP1071	PEWCT1036	PEWCT1100	SMA
		PEWCT1066	N			PEWCT1108	N
PEWCP1054	PEWCT1019	PEWCT1063	SMA	PEWCP1072	PEWCT1037	PEWCT1101	SMA
		PEWCT1067	N			PEWCT1109	N
PEWCP1055	PEWCT1020	PEWCT1068	SMA	PEWCP1073	PEWCT1038	PEWCT1102	SMA
		PEWCT1076	N			PEWCT1110	N
PEWCP1056	PEWCT1021	PEWCT1069	SMA	PEWCP1074	PEWCT1039	PEWCT1103	SMA
		PEWCT1077	N			PEWCT1111	N
PEWCP1057	PEWCT1022	PEWCT1070	SMA	PEWCP1075	PEWCT1040	PEWCT1104	SMA
		PEWCT1078	N			PEWCT1112	N
PEWCP1058	PEWCT1023	PEWCT1071	SMA	PEWCP1076	PEWCT1041	PEWCT1105	SMA
		PEWCT1079	N			PEWCT1113	N
PEWCP1059	PEWCT1024	PEWCT1072	SMA	PEWCP1077	PEWCT1042	PEWCT1106	SMA
		PEWCT1080	N			PEWCT1114	N
PEWCP1060	PEWCT1025	PEWCT1073	SMA	PEWCP1078	PEWCT1043	PEWCT1107	SMA
		PEWCT1081	N			PEWCT1115	N

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WAVEGUIDE DETECTORS



Connector 1	RF Frequency (GHz.)	Voltage Sensitivity (V/nW)	Input Power (dBm)	Connector 2	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-28 UG-599/U	26.5 - 40	-1,000	20	SMA Female	EAR99	PE80T3005	\$3,627.84	\$3,482.73	\$3,337.61	\$3,192.50	24
WR-22 UG-383/U	33 - 50	-800		SMA Female	EAR99	PE80T3004	\$4,377.60	\$4,224.38	\$4,071.17	\$3,939.84	25
WR-19 UG-383/U	40 - 60	-800		SMA Female	EAR99	PE80T3003	\$3,865.20	\$3,710.59	\$3,555.98	\$3,401.38	26
WR-15 UG-385/U	50 - 75	-700		SMA Female	EAR99	PE80T3002	\$4,628.16	\$4,443.03	\$4,257.91	\$4,072.78	27
WR-12 UG-387/U	60 - 90	-900		SMA Female	EAR99	PE80T3001	\$4,445.27	\$4,267.46	\$4,089.65	\$3,911.84	28
WR-10 UG-387/U	75 - 100	-900		SMA Female	EAR99	PE80T3000	\$4,288.89	\$4,117.33	\$3,945.78	\$3,774.22	29

WAVEGUIDE DIRECT READ ATTENUATORS



WG Type	RF Freq. (GHz.)	Max Atten (dB)	IL (dB)	Max VSWR	Input Power (Watts)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	75 - 110	50	1	1.2:1	0.2	Round Cover UG-387/U-Mod	EAR99	PE-W10AT5001	\$5,588.44	\$5,364.90	\$5,141.36	\$4,917.83	30
WR-12	60 - 90		0.9	1.2:1	0.2	Round Cover UG-387/U	EAR99	PE-W12AT5001	\$6,129.03	\$5,914.51	\$5,700.00	\$5,516.13	31
WR-15	50 - 75		0.8	1.2:1	0.3	Round Cover UG-385/U	EAR99	PE-W15AT5001	\$5,893.31	\$5,657.58	\$5,421.85	\$5,186.11	32
WR-19	40 - 60		0.7	1.15:1	0.2	Round Cover UG-383/U-Mod	EAR99	PE-W19AT5001	\$5,588.44	\$5,364.90	\$5,141.36	\$4,917.83	33
WR-22	33 - 50		0.6	1.15:1	0.4	Round Cover UG-383/U	EAR99	PE-W22AT5001	\$5,806.38	\$5,574.12	\$5,341.87	\$5,109.61	34
		60		1.15:1	0.5		EAR99	PE-W22AT5002	\$5,590.00	\$5,366.40	\$5,142.80	\$4,919.20	35
WR-28	26.5 - 40	50	0.5	1.15:1	0.5	Square Cover UG-599/U	EAR99	PE-W28AT5001	\$5,482.14	\$5,262.85	\$5,043.57	\$4,824.28	36
WR-42	18 - 26.5		0.5	1.15:1	1	Square Cover UG-595/U	EAR99	PE-W42AT5001	\$6,129.03	\$5,883.87	\$5,638.71	\$5,393.55	37

WAVEGUIDE ELECTROMECHANICAL RELAY SWITCHES



Features:
 A: Absorptive
 AR: Auto Reset
 F: Failsafe
 D: Diode
 GR: Global Reset
 H: Hot Switches
 I: Indicators
 L: Latching
 M: Manual Override
 N: Normally Open
 NT: Non-Terminated
 P: Pulse
 Latching
 R: Reflective
 RS: Reset
 S: Self Cut Off
 SI: Set Indicator
 T: Terminated
 TTL: TTL Logic
 V: Viewing Window

WG Type	Switch Type	RF Freq. (GHz.)	Actuator / Features	IL (dB)	Iso (dB)	DC Power (V)	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-28	SPDT/DPDT	26.5 - 40	F, I	0.15	55	12	EAR99	PEWGS6056	Call	Call	Call	Call	38
				0.15	55	28	EAR99	PEWGS6057	Call	Call	Call	Call	39
			F, TTL, I	0.15	55	12	EAR99	PEWGS6058	Call	Call	Call	Call	40
	0.15			55	28	EAR99	PEWGS6059	Call	Call	Call	Call	41	
	B, L, S, I, M			0.15	55	12	EAR99	PEWGS6002	\$3,714.09	\$3,565.53	\$3,416.96	\$3,268.40	42
			0.15	55	28	EAR99	PEWGS6000	\$3,684.68	\$3,537.29	\$3,389.91	\$3,242.52	43	
B, L, TTL, S, I, M		0.15	55	12	EAR99	PEWGS6003	\$4,204.68	\$4,036.49	\$3,868.31	\$3,700.12	44		
	0.15	55	28	EAR99	PEWGS6001	\$3,828.39	\$3,675.25	\$3,522.12	\$3,368.98	45			
	L, S, SI, M, V	0.15	60	12	EAR99	PEWGS6042	\$4,489.34	\$4,309.77	\$4,130.19	\$3,950.62	46		
0.15		60	28	EAR99	PEWGS6040	\$4,556.55	\$4,374.29	\$4,192.03	\$4,009.76	47			
L, TTL, S, SI, M, V		0.15	60	12	EAR99	PEWGS6043	\$4,662.67	\$4,476.16	\$4,289.66	\$4,103.15	48		
	0.15	60	28	EAR99	PEWGS6041	\$4,662.67	\$4,476.16	\$4,289.66	\$4,103.15	49			
	B, L, S, I, M	0.15	60	12	EAR99	PEWGS6006	\$3,714.09	\$3,565.53	\$3,416.96	\$3,268.40	50		
0.15		60	28	EAR99	PEWGS6004	\$3,630.33	\$3,485.12	\$3,339.90	\$3,194.69	51			
B, L, TTL, S, I, M		0.15	60	12	EAR99	PEWGS6007	\$3,714.09	\$3,565.53	\$3,416.96	\$3,268.40	52		
	0.15	60	28	EAR99	PEWGS6005	\$3,828.39	\$3,675.25	\$3,522.12	\$3,368.98	53			
	B, L, S, I, M	0.1	60	12	EAR99	PEWGS6010	\$3,521.96	\$3,381.08	\$3,240.20	\$3,099.32	54		
0.1		60	28	EAR99	PEWGS6008	\$3,630.33	\$3,485.12	\$3,339.90	\$3,194.69	55			
B, L, TTL, S, I, M		0.1	60	12	EAR99	PEWGS6011	\$3,957.14	\$3,798.85	\$3,640.57	\$3,482.28	56		
	0.1	60	28	EAR99	PEWGS6009	\$4,296.02	\$4,124.18	\$3,952.34	\$3,780.50	57			
	B, L, S, I, M	0.05	75	12	EAR99	PEWGS6014	\$3,521.96	\$3,381.08	\$3,240.20	\$3,099.32	58		
0.05		75	28	EAR99	PEWGS6012	\$3,828.39	\$3,675.25	\$3,522.12	\$3,368.98	59			
B, L, TTL, S, I, M		0.05	75	12	EAR99	PEWGS6015	\$3,521.96	\$3,381.08	\$3,240.20	\$3,099.32	60		
	0.05	75	28	EAR99	PEWGS6013	\$4,109.70	\$3,945.31	\$3,780.92	\$3,616.54	61			
	SPDT/DPDT	8.2 - 12.4	F, I	0.07	80	12	EAR99	PEWGS6060	Call	Call	Call	Call	62
0.07				80	EAR99		PEWGS6064	Call	Call	Call	Call	63	
0.07				80	28	EAR99	PEWGS6061	Call	Call	Call	Call	64	
0.07				80		EAR99	PEWGS6065	Call	Call	Call	Call	65	

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 TTL: TTL Logic
 V: Viewing Window

WG Type	Switch Type	RF Freq. (GHz.)	Actuator / Features	IL (dB)	Iso (dB)	DC Power (V)	ECCN	Model No	1	2-4	5-9	10+	ROW			
WR-90	SPDT/DPDT	8.2 - 12.4	F, TTL, I	0.07	80	12	EAR99	PEWGS6062	Call	Call	Call	Call	66			
				0.07	80		EAR99	PEWGS6066	Call	Call	Call	Call	67			
				0.07	80	28	EAR99	PEWGS6063	Call	Call	Call	Call	68			
				0.07	80		EAR99	PEWGS6067	Call	Call	Call	Call	69			
	SPDT		B, L, S, I, M	0.07	80	12	EAR99	PEWGS6018	\$4,438.58	\$4,261.04	\$4,083.49	\$3,905.95	70			
				0.07	80	28	EAR99	PEWGS6016	\$4,142.67	\$3,976.96	\$3,811.26	\$3,645.55	71			
				0.07	80	12	EAR99	PEWGS6019	\$4,390.32	\$4,214.71	\$4,039.09	\$3,863.48	72			
WR-102	SPDT/DPDT	7 - 11	L, S, SI, M, V	0.06	80	12	EAR99	PEWGS6038	\$4,489.34	\$4,309.77	\$4,130.19	\$3,950.62	74			
				0.06	80	28	EAR99	PEWGS6036	\$4,489.34	\$4,309.77	\$4,130.19	\$3,950.62	75			
			L, TTL, S, SI, M, V	0.06	80	12	EAR99	PEWGS6039	\$4,662.67	\$4,476.16	\$4,289.66	\$4,103.15	76			
				0.06	80	28	EAR99	PEWGS6037	\$4,662.67	\$4,476.16	\$4,289.66	\$4,103.15	77			
			WR-112	SPDT/DPDT	7.05 - 10	F, I	0.05	80	12	EAR99	PEWGS6068	Call	Call	Call	Call	78
							0.05	80	28	EAR99	PEWGS6069	Call	Call	Call	Call	79
F, TTL, I	0.05	80				12	EAR99	PEWGS6070	Call	Call	Call	Call	80			
	0.05	80					EAR99	PEWGS6071	Call	Call	Call	Call	81			
WR-137	SPDT	5.85 - 8.2	B, L, S, I, M	0.05	80	28	EAR99	PEWGS6022	\$3,521.96	\$3,381.08	\$3,240.20	\$3,099.32	82			
				0.05	80	28	EAR99	PEWGS6020	\$3,630.33	\$3,485.12	\$3,339.90	\$3,194.69	83			
			B, L, TTL, S, I, M	0.05	80	12	EAR99	PEWGS6023	\$3,714.09	\$3,565.53	\$3,416.96	\$3,268.40	84			
				0.05	80	28	EAR99	PEWGS6021	\$3,630.33	\$3,485.12	\$3,339.90	\$3,194.69	85			
			WR-159	SPDT/DPDT	4.9 - 7.05	L, S, SI, M, V	0.02	70	12	EAR99	PEWGS6026	\$3,521.96	\$3,381.08	\$3,240.20	\$3,099.32	86
							0.02	70	28	EAR99	PEWGS6024	\$3,828.39	\$3,675.25	\$3,522.12	\$3,368.98	87
WR-187	SPDT/DPDT	3.95 - 5.85	B, L, TTL, S, I, M	0.02	70	12	EAR99	PEWGS6027	\$3,521.96	\$3,381.08	\$3,240.20	\$3,099.32	88			
				0.02	70	28	EAR99	PEWGS6025	\$3,630.33	\$3,485.12	\$3,339.90	\$3,194.69	89			
			L, S, SI, M, V	0.06	70	12	EAR99	PEWGS6034	\$4,489.34	\$4,309.77	\$4,130.19	\$3,950.62	90			
				0.06	70	28	EAR99	PEWGS6032	\$4,489.34	\$4,309.77	\$4,130.19	\$3,950.62	91			
			L, TTL, S, SI, M, V	0.06	70	12	EAR99	PEWGS6033	\$4,662.67	\$4,476.16	\$4,289.66	\$4,103.15	92			
				0.06	70		EAR99	PEWGS6035	\$4,662.67	\$4,476.16	\$4,289.66	\$4,103.15	93			
WR-187	SPDT/DPDT	3.95 - 5.85	L, S, SI, M, V	0.02	80	28	EAR99	PEWGS6030	\$4,489.34	\$4,309.77	\$4,130.19	\$3,950.62	94			
				0.02	80		EAR99	PEWGS6028	\$4,489.03	\$4,309.47	\$4,129.91	\$3,950.35	95			
			L, TTL, S, SI, M, V	0.002	80	12	EAR99	PEWGS6031	\$4,662.67	\$4,476.16	\$4,289.66	\$4,103.15	96			
				0.02	80	28	EAR99	PEWGS6029	\$4,662.67	\$4,476.16	\$4,289.66	\$4,103.15	97			

DOUBLE RIDGE WAVEGUIDE ELECTROMECHANICAL RELAY SWITCHES



Features:
 A: Absorptive
 AR: Auto Reset
 F: Failsafe
 D: Diode
 GR: Global Reset
 H: Hot Switches
 I: Indicators
 L: Latching
 M: Manual Override
 N: Normally Open
 NT: Non-Terminated
 P: Pulse Latching
 R: Reflective
 RS: Reset
 S: Self Cut Off
 SI: Set Indicator
 T: Terminated
 TTL: TTL Logic
 V: Viewing Window

WG Type	Switch Type	RF Freq. (GHz.)	Actuator / Features	IL (dB)	Iso (dB)	DC Power (V)	ECCN	Model No	1	2-4	5-9	10+	ROW
WRD-180	SPDT/DPDT	18 - 40	L, S, SI, M, V	0.4	50	12	EAR99	PEWGS6054	\$8,822.67	\$8,469.76	\$8,116.86	\$7,763.95	98
				0.4	50	28	EAR99	PEWGS6052	\$8,822.67	\$8,469.76	\$8,116.86	\$7,763.95	99
			L, TTL, S, SI, M, V	0.4	50	12	EAR99	PEWGS6056	Call	Call	Call	Call	1
				0.4	50		EAR99	PEWGS6065	Call	Call	Call	Call	2
				0.4	50		EAR99	PEWGS6066	Call	Call	Call	Call	3
				0.4	50		EAR99	PEWGS6067	Call	Call	Call	Call	4
				0.4	50		EAR99	PEWGS6068	Call	Call	Call	Call	5
				0.4	50		EAR99	PEWGS6069	Call	Call	Call	Call	6
				0.4	50		EAR99	PEWGS6070	Call	Call	Call	Call	7
				0.4	50		EAR99	PEWGS6071	Call	Call	Call	Call	8
				0.4	50		EAR99	PEWGS6057	Call	Call	Call	Call	9
				0.4	50		EAR99	PEWGS6058	Call	Call	Call	Call	10
				0.4	50		EAR99	PEWGS6059	Call	Call	Call	Call	11
				0.4	50		EAR99	PEWGS6060	Call	Call	Call	Call	12
				0.4	50		EAR99	PEWGS6061	Call	Call	Call	Call	13
				0.4	50		EAR99	PEWGS6062	Call	Call	Call	Call	14
				0.4	50		EAR99	PEWGS6055	\$8,996.00	\$8,636.16	\$8,276.32	\$7,916.48	15
				0.4	50		EAR99	PEWGS6063	Call	Call	Call	Call	16
				0.4	50		EAR99	PEWGS6064	Call	Call	Call	Call	17
				0.4	50		28	EAR99	PEWGS6053	\$8,996.00	\$8,636.16	\$8,276.32	\$7,916.48

DOUBLE RIDGE WAVEGUIDE ELECTROMECHANICAL RELAY SWITCHES



Features:

A: Absorptive	H: Hot Switches	P: Pulse Latching	T: Terminated
AR: Auto Reset	I: Indicators	R: Reflective	TTL: TTL Logic
F: Failsafe	L: Latching	RS: Reset	V: Viewing Window
D: Diode	M: Manual Override	S: Self Cut Off	
GR: Global Reset	N: Normally Open	SI: Set Indicator	
	NT: Non-Terminated		

WG Type	Switch Type	RF Freq. (GHz.)	Actuator / Features	IL (dB)	Iso (dB)	DC Power (V)	ECCN	Model No	1	2-4	5-9	10+	ROW
WRD-650	SPDT/DPDT	6.5 - 18	L, S, SI, M, V	0.35	60	12	EAR99	PEWGS6046	\$7,956.00	\$7,637.76	\$7,319.52	\$7,001.28	19
				0.35	60	28	EAR99	PEWGS6044	\$8,075.11	\$7,752.11	\$7,429.10	\$7,106.10	20
			L, TTL, S, SI, M, V	0.35	60	12	EAR99	PEWGS6047	\$8,129.34	\$7,804.17	\$7,478.99	\$7,153.82	21
				0.35	60	28	EAR99	PEWGS6045	\$8,129.34	\$7,804.17	\$7,478.99	\$7,153.82	22
WRD-750	SPDT/DPDT	7.5 - 18	L, S, SI, M, V	0.3	60	12	EAR99	PEWGS6050	\$7,956.00	\$7,637.76	\$7,319.52	\$7,001.28	23
				0.3	60	28	EAR99	PEWGS6048	\$7,956.00	\$7,637.76	\$7,319.52	\$7,001.28	24
			L, TTL, S, SI, M, V	0.3	60	12	EAR99	PEWGS6051	\$8,129.34	\$7,804.17	\$7,478.99	\$7,153.82	25
				0.3	60	28	EAR99	PEWGS6049	\$8,129.34	\$7,804.17	\$7,478.99	\$7,153.82	26

ELECTROMECHANICAL RELAY SWITCHES see page 324

WAVEGUIDE FIXED ATTENUATORS



Waveguide Type	RF Frequency (GHz.)	Flange Type	Atten. (dB)	VSWR	Max. Power (W)	ECCN	Model No	1-24	25-49	50-99	100+	ROW
WR-10	75 - 110	Round Cover UG-387/U-Mod	3	1.15:1	1	EAR99	PEWAT1012-3	1,270.46	1,181.53	1,092.60	1,016.37	27
			6		1	EAR99	PEWAT1012-6	1,270.46	1,181.53	1,092.60	1,016.37	28
			10		1	EAR99	PEWAT1012-10	1,270.46	1,181.53	1,092.60	1,016.37	29
			20		1	EAR99	PEWAT1012-20	1,270.46	1,181.53	1,092.60	1,016.37	30
			30		1	EAR99	PEWAT1012-30	1,270.46	1,181.53	1,092.60	1,016.37	31
WR-12	60 - 90	Round Cover UG-387/U	3	1.15:1	1	EAR99	PEWAT1011-3	1,270.46	1,181.53	1,092.60	1,016.37	32
			6		1	EAR99	PEWAT1011-6	1,270.46	1,181.53	1,092.60	1,016.37	33
			10		1	EAR99	PEWAT1011-10	1,270.46	1,181.53	1,092.60	1,016.37	34
			20		1	EAR99	PEWAT1011-20	1,270.46	1,181.53	1,092.60	1,016.37	35
			30		1	EAR99	PEWAT1011-30	1,270.46	1,181.53	1,092.60	1,016.37	36
WR-15	50 - 75	Round Cover UG-385/U	3	1.15:1	2	EAR99	PEWAT1010-3	1,270.46	1,181.53	1,092.60	1,016.37	37
			6		2	EAR99	PEWAT1010-6	1,270.46	1,181.53	1,092.60	1,016.37	38
			10		2	EAR99	PEWAT1010-10	1,270.46	1,181.53	1,092.60	1,016.37	39
			20		2	EAR99	PEWAT1010-20	1,270.46	1,181.53	1,092.60	1,016.37	40
			30		2	EAR99	PEWAT1010-30	1,270.46	1,181.53	1,092.60	1,016.37	41
WR-19	40 - 60	Round Cover UG-383/U-Mod	3	1.15:1	3	EAR99	PEWAT1009-3	1,465.91	1,363.30	1,260.68	1,172.73	42
			6		3	EAR99	PEWAT1009-6	1,465.91	1,363.30	1,260.68	1,172.73	43
			10		3	EAR99	PEWAT1009-10	1,465.91	1,363.30	1,260.68	1,172.73	44
			20		3	EAR99	PEWAT1009-20	1,465.91	1,363.30	1,260.68	1,172.73	45
			30		3	EAR99	PEWAT1009-30	1,465.91	1,363.30	1,260.68	1,172.73	46
WR-22	33 - 50	Round Cover UG-383/U	3	1.15:1	4	EAR99	PEWAT1008-3	1,465.91	1,363.30	1,260.68	1,172.73	47
			6		4	EAR99	PEWAT1008-6	1,465.91	1,363.30	1,260.68	1,172.73	48
			10		4	EAR99	PEWAT1008-10	1,465.91	1,363.30	1,260.68	1,172.73	49
			20		4	EAR99	PEWAT1008-20	1,465.91	1,363.30	1,260.68	1,172.73	50
			30		4	EAR99	PEWAT1008-30	1,465.91	1,363.30	1,260.68	1,172.73	51
WR-28	26.5 - 40	Square Cover UG-599/U	3	1.2:1	5	EAR99	PEWAT1007-3	1,465.91	1,363.30	1,260.68	1,172.73	52
			6		5	EAR99	PEWAT1007-6	1,465.91	1,363.30	1,260.68	1,172.73	53
			10		5	EAR99	PEWAT1007-10	1,465.91	1,363.30	1,260.68	1,172.73	54
			20		5	EAR99	PEWAT1007-20	1,465.91	1,363.30	1,260.68	1,172.73	55
			30		5	EAR99	PEWAT1007-30	1,465.91	1,363.30	1,260.68	1,172.73	56

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FLEXIBLE WAVEGUIDES

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Waveguide Type	RF Frequency (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	R O W
WR-22	33 - 50	0.49	1.2:1	6	Round Cover UG-383/U	EAR99	PE-W22SF005-6	\$1,712.81	\$1,644.30	\$1,575.79	\$1,507.27	57
		0.49	1.2:1	12	Round Cover UG-383/U	EAR99	PE-W22SF005-12	\$2,568.67	\$2,465.92	\$2,363.18	\$2,260.43	58
		0.49	1.2:1	24	Round Cover UG-383/U	EAR99	PE-W22SF005-24	\$3,464.07	\$3,325.51	\$3,186.94	\$3,048.38	59
WR-28	26.5 - 40	0.49	1.2:1	12	Square Cover UG-599/U	EAR99	PE-W28SF005-12	\$1,451.75	\$1,393.68	\$1,335.61	\$1,277.54	60
		0.98	1.2:1	24	Square Cover UG-599/U	EAR99	PE-W28SF005-24	\$2,308.90	\$2,216.54	\$2,124.19	\$2,031.83	61
		1.47	1.2:1	36	Square Cover UG-599/U	EAR99	PE-W28SF005-36	\$3,221.91	\$3,093.03	\$2,964.16	\$2,835.28	62
WR-34	22 - 33	0.4	1.15:1	12	Square Cover UG-1530/U	EAR99	PE-W34SF005-12	\$1,395.90	\$1,340.06	\$1,284.23	\$1,228.39	63
		0.8	1.15:1	24	Square Cover UG-1530/U	EAR99	PE-W34SF005-24	\$2,189.46	\$2,101.88	\$2,014.30	\$1,926.72	64
		1.2	1.15:1	36	Square Cover UG-1530/U	EAR99	PE-W34SF005-36	\$3,221.91	\$3,093.03	\$2,964.16	\$2,835.28	65
WR-42	18 - 26.5	0.27	1.15:1	12	Square Cover UG-595/U	EAR99	PE-W42SF005-12	\$1,226.13	\$1,177.08	\$1,128.04	\$1,078.99	66
		0.54	1.15:1	24	Square Cover UG-595/U	EAR99	PE-W42SF005-24	\$1,991.99	\$1,912.31	\$1,832.63	\$1,752.95	67
		0.81	1.15:1	36	Square Cover UG-595/U	EAR99	PE-W42SF005-36	\$2,761.63	\$2,651.16	\$2,540.70	\$2,430.23	68
WR-51	15 - 22	0.18	1.1:1	12	Square Cover	EAR99	PE-W51SF005-12	\$1,173.43	\$1,126.49	\$1,079.56	\$1,032.62	69
		0.36	1.1:1	24	Square Cover	EAR99	PE-W51SF005-24	\$1,896.11	\$1,820.27	\$1,744.42	\$1,668.58	70
		0.54	1.1:1	36	Square Cover	EAR99	PE-W51SF005-36	\$2,665.24	\$2,558.63	\$2,452.02	\$2,345.41	71
WR-62	12.4 - 18	0.14	1.08:1	12	Square Cover UG-419/U	EAR99	PE-W62SF005-12	\$1,177.09	\$1,130.01	\$1,082.92	\$1,035.84	72
		0.28	1.08:1	24	Square Cover UG-419/U	EAR99	PE-W62SF005-24	\$1,699.36	\$1,631.39	\$1,563.41	\$1,495.44	73
		0.42	1.08:1	36	Square Cover UG-419/U	EAR99	PE-W62SF005-36	\$2,418.93	\$2,322.17	\$2,225.42	\$2,128.66	74
WR-75	10 - 15	0.12	1.07:1	12	Square Cover	EAR99	PE-W75SF005-12	\$1,150.70	\$1,104.67	\$1,058.64	\$1,012.62	75
		0.24	1.07:1	24	Square Cover	EAR99	PE-W75SF005-24	\$1,859.80	\$1,785.41	\$1,711.02	\$1,636.62	76
		0.36	1.07:1	36	Square Cover	EAR99	PE-W75SF005-36	\$2,526.83	\$2,425.76	\$2,324.68	\$2,223.61	77
WR-90	8.2 - 12.4	0.09	1.07:1	12	Square Cover UG-39/U	EAR99	PE-W90SF005-12	\$1,224.17	\$1,175.20	\$1,126.24	\$1,077.27	78
		0.18	1.07:1	24	CPR-90G	EAR99	PE-W90SF006-24	\$1,745.85	\$1,676.02	\$1,606.18	\$1,536.35	79
		0.18	1.07:1	24	Square Cover UG-39/U	EAR99	PE-W90SF005-24	\$1,841.11	\$1,767.47	\$1,693.82	\$1,620.18	80
		0.27	1.07:1	36	CPR-90G	EAR99	PE-W90SF006-36	\$2,368.35	\$2,273.62	\$2,178.88	\$2,084.15	81
		0.27	1.07:1	36	Square Cover UG-39/U	EAR99	PE-W90SF005-36	\$2,497.56	\$2,397.66	\$2,297.76	\$2,197.85	82
		0.9	1.07:1	36	CPR-90G	EAR99	PE-W90SF006-12	\$1,116.20	\$1,071.55	\$1,026.90	\$982.26	83
WR-112	7.05 - 10	0.08	1.07:1	12	CPR-112G	EAR99	PE-W112SF006-12	\$1,209.22	\$1,160.85	\$1,112.48	\$1,064.11	84
		0.08	1.07:1	24	Square Cover UG-51/U	EAR99	PE-W112SF005-12	\$1,227.33	\$1,178.24	\$1,129.14	\$1,080.05	85
		0.16	1.07:1	24	CPR-112G	EAR99	PE-W112SF006-24	\$1,903.25	\$1,827.12	\$1,750.99	\$1,674.86	86
		0.16	1.07:1	24	Square Cover UG-51/U	EAR99	PE-W112SF005-24	\$1,931.74	\$1,854.47	\$1,777.20	\$1,699.93	87
		0.24	1.07:1	36	CPR-112G	EAR99	PE-W112SF006-36	\$2,604.46	\$2,500.28	\$2,396.10	\$2,291.92	88
		0.24	1.07:1	36	Square Cover UG-51/U	EAR99	PE-W112SF005-36	\$2,604.46	\$2,500.28	\$2,396.10	\$2,291.92	89
WR-137	5.85 - 8.2	0.06	1.07:1	12	CPR-137G	EAR99	PE-W137SF006-12	\$1,237.83	\$1,188.32	\$1,138.80	\$1,089.29	90
		0.06	1.07:1	24	Round Cover UG-344/U	EAR99	PE-W137SF005-12	\$1,345.15	\$1,291.34	\$1,237.54	\$1,183.73	91
		0.12	1.07:1	24	CPR-137G	EAR99	PE-W137SF006-24	\$2,124.19	\$2,039.22	\$1,954.25	\$1,869.29	92
		0.12	1.07:1	24	Round Cover UG-344/U	EAR99	PE-W137SF005-24	\$2,139.37	\$2,053.80	\$1,968.22	\$1,882.65	93
		0.18	1.07:1	36	CPR-137G	EAR99	PE-W137SF006-36	\$2,883.51	\$2,768.17	\$2,652.83	\$2,537.49	94
		0.18	1.07:1	36	Round Cover UG-344/U	EAR99	PE-W137SF005-36	\$2,933.58	\$2,816.24	\$2,698.89	\$2,581.55	95

Twistable



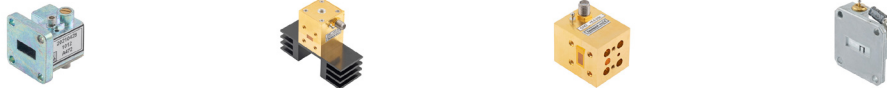
Waveguide Type	RF Frequency (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
WR-22	33 - 50	0.6	1.3:1	6	Round Cover UG-383/U	EAR99	PE-W22TF005-6	\$860.18	See Web for Volume Pricing	96
		0.6	1.3:1	12	Round Cover UG-383/U	EAR99	PE-W22TF005-12	\$875.28		97
		0.6	1.3:1	24	Round Cover UG-383/U	EAR99	PE-W22TF005-24	\$920.55		98
WR-28	26.5 - 40	0.6	1.3:1	12	Square Cover UG-599/U	EAR99	PE-W28TF005-12	\$566.78		99
		1.2	1.3:1	24	Square Cover UG-599/U	EAR99	PE-W28TF005-24	\$635.41		1
		1.8	1.3:1	36	Square Cover UG-599/U	EAR99	PE-W28TF005-36	\$620.28		2
WR-34	22 - 33	0.5	1.22:1	12	Square Cover UG-1530/U	EAR99	PE-W34TF005-12	\$526.90		3
		1	1.22:1	24	Square Cover UG-1530/U	EAR99	PE-W34TF005-24	\$593.24		4
		1.5	1.22:1	36	Square Cover UG-1530/U	EAR99	PE-W34TF005-36	\$635.02		5
WR-42	18 - 26.5	0.35	1.3:1	12	Square Cover UG-595/U	EAR99	PE-W42TF005-12	\$487.71		6
		0.7	1.3:1	24	Square Cover UG-595/U	EAR99	PE-W42TF005-24	\$518.04		7
		1.05	1.35:1	36	Square Cover UG-595/U	EAR99	PE-W42TF005-36	\$542.02		8
WR-51	15 - 22	0.55	1.15:1	12	Square Cover	EAR99	PE-W51TF005-12	\$515.19	9	

Twistable



Waveguide Type	RF Frequency (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-51	15 - 22	1.1	1.15:1	24	Square Cover	EAR99	PE-W51TF005-24	\$535.74	See Web for Volume Pricing	10
		1.65	1.15:1	36	Square Cover	EAR99	PE-W51TF005-36	\$596.32		11
WR-62	12.4 - 18	0.28	1.1:1	12	Square Cover UG-419/U	EAR99	PE-W62TF005-12	\$574.60		12
		0.56	1.1:1	24	Square Cover UG-419/U	EAR99	PE-W62TF005-24	\$668.47		13
		0.84	1.1:1	36	Square Cover UG-419/U	EAR99	PE-W62TF005-36	\$683.22		14
WR-75	10 - 15	0.18	1.1:1	12	Square Cover	EAR99	PE-W75TF005-12	\$629.75		15
		0.36	1.1:1	24	Square Cover	EAR99	PE-W75TF005-24	\$626.67		16
		0.54	1.1:1	36	Square Cover	EAR99	PE-W75TF005-36	\$674.31		17
WR-90	8.2 - 12.4	0.15	1.07:1	12	CPR-90G	EAR99	PE-W90TF006-12	\$535.74		18
		0.15	1.1:1	12	Square Cover UG-39/U	EAR99	PE-W90TF005-12	\$680.95		19
		0.3	1.07:1	24	CPR-90G	EAR99	PE-W90TF006-24	\$650.64		20
		0.36	1.1:1	24	Square Cover UG-39/U	EAR99	PE-W90TF005-24	\$726.67		21
		0.45	1.07:1	36	CPR-90G	EAR99	PE-W90TF006-36	\$714.12	22	
WR-112	7.05 - 10	0.12	1.07:1	12	CPR-112G	EAR99	PE-W112TF006-12	\$676.80	23	
		0.12	1.3:1	12	Square Cover UG-51/U	EAR99	PE-W112TF005-12	\$699.07	24	
		0.24	1.07:1	24	CPR-112G	EAR99	PE-W112TF006-24	\$759.00	25	
		0.24	1.07:1	24	Square Cover UG-51/U	EAR99	PE-W112TF005-24	\$714.11	26	
		0.36	1.07:1	36	CPR-112G	EAR99	PE-W112TF006-36	\$792.58	27	
		0.36	1.07:1	36	Square Cover UG-51/U	EAR99	PE-W112TF005-36	\$792.58	28	
WR-137	5.85 - 8.2	0.07	1.05:1	12	CPR-137G	EAR99	PE-W137TF006-12	\$650.64	29	
		0.07	1.05:1	12	Round Cover UG-344/U	EAR99	PE-W137TF005-12	\$651.13	30	
		0.14	1.05:1	24	CPR-137G	EAR99	PE-W137TF006-24	\$742.69	31	
		0.14	1.05:1	24	Round Cover UG-344/U	EAR99	PE-W137TF005-24	\$813.56	32	
		0.18	1.05:1	36	Round Cover UG-344/U	EAR99	PE-W137TF005-36	\$918.15	33	
		0.21	1.05:1	36	CPR-137G	EAR99	PE-W137TF006-36	\$846.15	34	
									35	

WAVEGUIDE GUNN OSCILLATORS



WG Type	Center Freq. (GHz.)	Tuning Range (GHz.)	Integrated Heatsink	Phase Noise (dBc/Hz)	Output Power (dBm)	Flange Type	ECCN	Model No	1-9	10-24	25-49	50+	ROW
WR-42	24.125	+/- 1	No	-98	12.5	Square Cover UG-595/U	EAR99	PEWGN1012	\$1,356.18	\$1,288.37	\$1,220.56	\$1,166.31	36
WR-28	35	+/- 3	No	-95	15	Square Cover UG-599/U	EAR99	PEWGN1010	\$8,051.18	\$7,648.62	\$7,246.06	\$6,924.01	37
		+/- 3	Yes	-95	15	Square Cover UG-599/U	EAR99	PEWGN1011	\$7,639.18	\$7,257.22	\$6,875.26	\$6,569.69	38
WR-90	93.75	+/- 0.25	No	-105	18.5	Square Cover UG-39/U	EAR99	PEWGN1013	\$3,828.18	\$3,636.77	\$3,445.36	\$3,292.23	39

WAVEGUIDE ISOLATORS



WG Type	RF Freq. (GHz.)	Min Isolation (dB)	Max IL (dB)	Max VSWR	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW	
WR-10	75 - 110	25	2.3	1.5:1	UG-387/U-Mod		PEWIR1000	Call	Call	Call	Call	40	
WR-12	60 - 90		2	1.5:1	UG-387/U		PEWIR1001	\$2,821.60	\$2,708.74	\$2,595.87	\$2,483.01	41	
WR-15	50 - 75		1.8	1.4:1	UG-385/U		PEWIR1002	\$2,717.05	\$2,608.37	\$2,499.69	\$2,391.00	42	
WR-19	40 - 60		1.6	1.4:1	UG-383/U-Mod		PEWIR1003	\$2,821.60	\$2,708.74	\$2,595.87	\$2,483.01	43	
WR-22	33 - 50		1.5	1.4:1	UG-383/U		PEWIR1004	\$2,772.27	\$2,661.38	\$2,550.49	\$2,439.60	44	
WR-28	26.5 - 40					UG-599/U		PEWIR1015	\$2,985.97	\$2,866.53	\$2,747.09	\$2,627.65	45
WR-42	18 - 26.5					UG-597/U		PEWIR1010	\$2,487.83	\$2,388.32	\$2,288.80	\$2,189.29	46
WR-62	12.4 - 18					UG-1665/U		PEWIR1009	\$2,412.86	\$2,316.35	\$2,219.83	\$2,123.32	47
WR-75	10 - 15					Cover		PEWIR1008	\$2,327.91	\$2,234.79	\$2,141.68	\$2,048.56	48
WR-90	8.2 - 12.4					UG-135/U		PEWIR1007	\$2,371.18	\$2,276.33	\$2,181.49	\$2,086.64	49
WR-112	7.05 - 10					UG-138/U		PEWIR1006	\$2,466.50	\$2,367.84	\$2,269.18	\$2,170.52	50

WAVEGUIDE LOW NOISE AMPLIFIERS



RF Freq. (GHz.)	Gain (dB)	Gain Variation ± (dB)	NF (dB)	P1dB (dBm)	IP3 (dBm)	Waveguide Type	ECCN	Model No	1	2-4	5-9	10+	ROW
26.5 - 40	47	2.5	3.2	20	25	WR-28	EAR99	PE15A1076	\$9,871.27	\$9,476.42	\$9,081.57	\$8,686.72	51
27 - 40	35	3	3	10	20		EAR99	PE15A1077	\$9,114.65	\$8,750.06	\$8,385.48	\$8,020.89	52

WAVEGUIDE MAGIC TEES



Waveguide Type	RF Frequency (GHz.)	Flange Type	IL (dB)	Min Isolation (dB)	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	75 - 110	Round Cover UG-387/U-Mod	1	25	EAR99	PEWMT1000	\$2,786.39	\$2,674.93	\$2,563.48	\$2,452.02	53
WR-12	60 - 90	Round Cover UG-387/U			EAR99	PEWMT1001	\$2,815.03	\$2,702.43	\$2,589.83	\$2,477.23	54
WR-15	50 - 75	Round Cover UG-385/U			EAR99	PEWMT1002	\$2,670.14	\$2,563.33	\$2,456.53	\$2,349.72	55
WR-19	40 - 60	Round Cover UG-383/U-Mod	0.8		EAR99	PEWMT1003	\$2,408.23	\$2,311.90	\$2,215.57	\$2,119.24	56
WR-22	33 - 50	Round Cover UG-383/U	0.7		EAR99	PEWMT1004	\$2,408.23	\$2,311.90	\$2,215.57	\$2,119.24	57
WR-28	26.5 - 40	Square Cover UG-599/U	0.5		EAR99	PEWMT1005	\$2,293.98	\$2,202.22	\$2,110.46	\$2,018.70	58
WR-42	18 - 26.5	Square Cover UG-595/U		EAR99	PEWMT1006	\$2,249.01	\$2,159.05	\$2,069.09	\$1,979.13	59	

WAVEGUIDE ORTHOMODE TRANSDUCERS



RF Freq. (GHz.)	H to A IL (dB)	V to A IL (dB)	H to V Isolation (dB)	H to A Cross Polarization (dB)	V to A Cross Polarization (dB)	Waveguide Type	ECCN	Model No	1	2-4	5-9	10+	ROW
24 - 33	0.6	0.5	45	35	35	WR-34	EAR99	PEWOT0001	\$5,371.65	\$5,183.64	\$4,995.63	\$4,834.49	60
30 - 42	0.5		40	35	35	WR-28	EAR99	PEWOT0003	\$5,096.18	\$4,917.81	\$4,739.45	\$4,586.56	61
26.5 - 40		35		35	EAR99		PEWOT0007	\$4,820.71	\$4,651.99	\$4,483.26	\$4,338.64	62	
60 - 90	1.2	0.8		35	35	WR-12	EAR99	PEWOT0009	\$4,848.25	\$4,678.56	\$4,508.87	\$4,363.43	63
8.2 - 12.4						WR-90	EAR99	PEWOT0014	\$3,856.57	\$3,721.59	\$3,586.61	\$3,470.91	64

WAVEGUIDE PHASE SHIFTERS



WG Type	RF Freq. (GHz.)	Phase Range (GHz.)	Input Power (Watts)	IL (dB)	Length (in)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	75 - 110	0 - 180°	0.6	1	3	Round Cover UG-387/U-Mod	EAR99	PE-W10PS1001	\$2,207.30	\$2,119.01	\$2,030.72	\$1,942.42	65
WR-12	60 - 90	0 - 180°	0.7	1	3	Round Cover UG-387/U	EAR99	PE-W12PS1001	\$2,293.38	\$2,201.64	\$2,109.91	\$2,018.17	66
WR-15	50 - 75	0 - 180°	0.8	1	3	Round Cover UG-385/U	EAR99	PE-W15PS1001	\$2,259.55	\$2,169.17	\$2,078.79	\$1,988.40	67
WR-19	40 - 60	0 - 180°	1	1	3	Round Cover UG-383/U-Mod	EAR99	PE-W19PS1001	\$2,174.74	\$2,087.75	\$2,000.76	\$1,913.77	68
WR-22	33 - 50	0 - 180°	1	1	4	Round Cover UG-383/U	EAR99	PE-W22PS1001	\$2,293.38	\$2,201.64	\$2,109.91	\$2,018.17	69
WR-28	26.5 - 40	0 - 180°	1		4	Square Cover UG-599/U	EAR99	PE-W28PS1002	\$2,848.99	\$2,735.03	\$2,621.07	\$2,507.11	70
WR-42	18 - 26.5	0 - 180°	1.5	1	4	Square Cover UG-595/U	EAR99	PE-W42PS1001	\$2,293.38	\$2,201.64	\$2,109.91	\$2,018.17	71

WAVEGUIDE PIN DIODE SWITCHES



WG Type	Switch Type	RF Freq. (GHz.)	IL (dB)	Min Isolation (dB)	Max Switching (in)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	SPST/ Reflective	75 - 110	5.5	20	300	Round Cover UG-387/U	EAR99	PE71S9003	\$8,669.44	\$8,322.66	\$7,975.88	\$7,629.11	72
	SPDT/ Reflective		7	20	300	Round Cover UG-387/U	EAR99	PE71S9004	\$10,294.96	\$9,883.16	\$9,471.36	\$9,059.56	73
WR-12	SPST/ Reflective	60 - 90	4.5	20	300	Round Cover UG-387/U	EAR99	PE71S9001	\$7,946.63	\$7,628.76	\$7,310.90	\$6,993.03	74
	SPDT/ Reflective		6	20	300	Round Cover UG-387/U	EAR99	PE71S9002	\$9,392.27	\$9,016.58	\$8,640.89	\$8,265.20	75

PIN DIODE SWITCHES, see page 331

WAVEGUIDE POLARIZERS



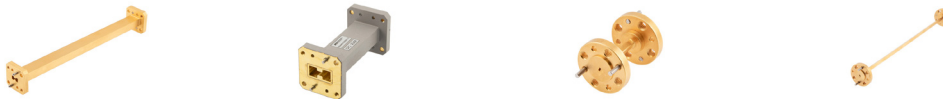
Band	RF Freq. (GHz.)	Typ Bandwidth (GHz)	Typ IL (dB)	Typ Axial Ratio (dB)	Length (in)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
Ku	14 - 16	±1	0.5	1.1	3	Square Cover UG-419/U-Mod	EAR99	PEWPL0000	\$4,223.00	\$4,075.20	\$3,927.39	\$3,800.70	76
Ka	26 - 33	±3.5		1.1	2	Square Cover UG-599/U-Mod	EAR99	PEWPL0005	\$4,223.00	\$4,075.20	\$3,927.39	\$3,800.70	77
V	58 - 63	±2.5		1.1	1	Round Cover UG-385/U-Mod	EAR99	PEWPL0008	\$4,223.00	\$4,075.20	\$3,927.39	\$3,800.70	78

WAVEGUIDE POWER AMPLIFIERS



Waveguide Type	RF Frequency (GHz.)	Min Gain (dB)	Psat (dBm)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-12	70.5 - 76.5	25	20	Round Cover UG-387/U	EAR99	PE15A4023	\$11,090.00	\$10,646.40	\$10,202.80	\$9,759.20	79
	80.5 - 86.5	20	19	Round Cover UG-387/U	EAR99	PE15A4024	\$11,537.55	\$11,076.05	\$10,614.55	\$10,153.04	80

WAVEGUIDE SECTIONS



WG Type	RF Freq. (GHz.)	IL (dB)	VSWR	Length (in)	Flange Type	ECCN	Model No	1-9	10-24	25-49	50+	ROW
WR-5	140 - 220			1	Round Cover UG-387/U-Mod	EAR99	PEW05S000-1	\$620.84	\$589.80	\$558.76	\$533.92	81
				3		EAR99	PEW05S000-3	\$577.19	\$548.33	\$519.47	\$496.38	82
				6		EAR99	PEW05S000-6	\$740.86	\$703.82	\$666.77	\$637.14	83
				9		EAR99	PEW05S000-9	\$837.43	\$795.56	\$753.69	\$720.19	84
				12		EAR99	PEW05S000-12	\$980.90	\$931.86	\$882.81	\$843.57	85
WR-6	110 - 170	0.35	1.15:1	1	Round Cover UG-387/U-Mod	EAR99	PEW06S000-1	\$500.83	\$475.79	\$450.75	\$430.71	86
		0.55		3		EAR99	PEW06S000-3	\$544.46	\$517.24	\$490.01	\$468.24	87
		0.75		6		EAR99	PEW06S000-6	\$697.68	\$662.80	\$627.91	\$600.00	88
		1.5		9		EAR99	PEW06S000-9	\$805.18	\$764.92	\$724.66	\$692.45	89
				12		EAR99	PEW06S000-12	\$934.18	\$887.47	\$840.76	\$803.39	90
WR-8	90 - 140	0.3		1		EAR99	PEW08S000-1	\$435.36	\$413.59	\$391.82	\$374.41	91
		0.5		3		EAR99	PEW08S000-3	\$479.00	\$455.05	\$431.10	\$411.94	92
				6		EAR99	PEW08S000-6	\$653.57	\$620.89	\$588.21	\$562.07	93

WAVEGUIDE SECTIONS



WG Type	RF Freq. (GHz.)	IL (dB)	VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW	
WR-8	90 - 140	0.7	1.15:1	9	Round Cover UG-387/U-Mod	EAR99	PEW08S000-9	\$805.18		94	
		1.2		12		EAR99	PEW08S000-12	\$948.17		95	
WR-10	75 - 110	0.25		3		EAR99	PEW10S010-3	\$503.41		96	
		0.5		6		EAR99	PEW10S010-6	\$515.41		97	
WR-12	60 - 90	0.3		3	Round Cover UG-387/U	EAR99	PEW12S010-3	\$391.73		98	
		0.5		6		EAR99	PEW12S010-6	\$412.47		99	
		0.64		9		EAR99	PE-W12S001-9	\$513.24		1	
		0.8		9		EAR99	PEW12S010-9	\$513.24		2	
WR-15	50 - 75	0.82	1.06:1	12	Round Cover UG-385/U	EAR99	PE-W12S001-12	\$532.95		3	
		0.2		3		EAR99	PE-W15S001-3	\$418.71		4	
		0.34		6		EAR99	PE-W15S001-6	\$426.23		5	
		0.49		9		EAR99	PE-W15S001-9	\$501.83		6	
WR-19	40 - 60	0.64		12	Round Cover UG-383/U	EAR99	PE-W15S001-12	\$699.32		7	
		0.95		12		EAR99	PEW15S010-12	\$699.32		8	
		0.15		3		EAR99	PE-W19S001-3	\$388.78		9	
		0.2		3		EAR99	PEW19S010-3	\$388.78		10	
WR-19	40 - 60	0.25		6	Round Cover UG-383/U-Mod	EAR99	PE-W19S001-6	\$441.01		11	
		0.34		9		EAR99	PE-W19S001-9	\$501.83		12	
		0.44		12		EAR99	PE-W19S001-12	\$570.26		13	
		0.8		12		EAR99	PEW19S010-12	\$561.84		14	
WR-22	33 - 50	0.13	1.1:1	3	Round Cover UG-383/U	EAR99	PE-W22S001-3	\$385.10		15	
		0.21		6		EAR99	PE-W22S001-6	\$405.04		16	
		0.25		3		EAR99	PEW22S010-3	\$428.93		17	
		0.29		9		EAR99	PE-W22S001-9	\$458.34		18	
WR-28	26.5 - 40	0.36	1.06:1	12		EAR99	PE-W22S001-12	\$551.25		19	
			1.09:1	4		EAR99	PEWSP1000	\$634.77		20	
		0.11	1.06:1	3		Square Cover UG-599/U	EAR99	PE-W28S001-3		\$363.03	21
		0.2		6			EAR99	PEW28S010-3		\$396.08	22
0.22	9	EAR99		PEW28S010-6	\$441.91		23				
WR-34	20 - 33		1.09:1	4	Square Cover UG-1530/U	EAR99	PE-W28S001-9	\$475.22		24	
			1.07:1	4		EAR99	PEWSP1001	\$560.08		25	
WR-42	18 - 26.5	0.08	1.06:1	3	Square Cover UG-595/U	EAR99	PEWSP1002	\$578.76	See Web for Volume Pricing	26	
		0.12		6		EAR99	PE-W42S002-3	\$428.93		27	
		0.15		9		EAR99	PE-W42S001A-6	\$398.69		28	
		0.18		12		EAR99	PE-W42S001A-9	\$470.32		29	
WR-51	15 - 22		1.07:1	4	Square Cover	EAR99	PE-W42S001-12	\$572.74		30	
		0.11	9	EAR99		PEWSP1003	\$560.08	31			
		0.13	12	EAR99		PE-W51S001-9	\$399.92	32			
			4	EAR99		PE-W51S001-12	\$541.16	33			
WR-62	12.4 - 18		1.07:1	4	Square Cover UG-419/U	EAR99	PEWSP1004	\$597.44		34	
		0.08	6	EAR99		PE-W62S002-6	\$456.89	35			
		0.1	9	EAR99		PE-W62S002-9	\$542.16	36			
		0.11	12	EAR99		PE-W62S002-12	\$613.85	37			
WR-75	10 - 15		1.03:1	3	Square Cover UG-419/U	EAR99	PE-W62S001-3	\$341.08		38	
			1.07:1	4		EAR99	PEWSP1005	\$576.07		39	
			1.03:1	6		EAR99	PE-W62S001-6	\$348.44		40	
			1.03:1	9		EAR99	PE-W62S001-9	\$355.78		41	
WR-90	8.2 - 12.4	0.1	1.03:1	12	Square Cover UG-39/U	EAR99	PE-W62S001-12	\$363.11		42	
				6		EAR99	PE-W75S001A-6	\$336.05		43	
				3		EAR99	PE-W75S001-3	\$350.72		44	
				4		EAR99	PEWSP1006	\$587.43		45	
WR-90	8.2 - 12.4		1.07:1	6	Square Cover	EAR99	PE-W75S001-6	\$341.08		46	
				9		EAR99	PE-W75S001-9	\$348.44		47	
			1.03:1	3	Square Cover UG-39/U	EAR99	PE-W75S001-9	\$348.44		48	
				3		EAR99	PE-W90S001A-9	\$256.56		49	
			1.07:1	3	CPR-90G	EAR99	PE-W90S001-3	\$223.73		50	
				3		EAR99	PE-W90S002-3	\$276.87		51	
			1.03:1	4	Square Cover UG-39/U	EAR99	PEWSP1007	\$606.38		52	
				4		EAR99	PEWSP1008	\$604.89		53	
	1.03:1	6	Square Cover UG-39/U	EAR99	PE-W90S001-6	\$227.39	54				
		6		EAR99	PE-W90S002-6	\$325.88	55				
	1.03:1	9	Square Cover UG-39/U	EAR99	PE-W90S001-9	\$260.41	56				
		9		EAR99	PE-W90S002-9	\$324.84	57				
	1.03:1	12	Square Cover UG-39/U	EAR99	PE-W90S001-12	\$272.26	58				
		12		EAR99	PE-W90S002-12	\$337.83	59				

WAVEGUIDE SECTIONS



WG Type	RF Freq. (GHz.)	IL (dB)	VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW	
WR-112	7.05 - 10		1.03:1	3	Square Cover UG-51/U	EAR99	PE-W112S001-3	\$344.76	See Web for Volume Pricing	59	
			1.07:1	4		EAR99	PEWSP1009	\$616.09		60	
			1.03:1	6	CPR-112G	EAR99	PEWSP1010	\$619.84		61	
				9	Square Cover UG-51/U	EAR99	PE-W112S001-6	\$331.35		62	
				12		EAR99	PE-W112S001-9	\$379.42		63	
WR-137	5.85 - 8.2	0.1	1.03:1	6	CPR-137G	EAR99	PE-W137S002A-6	\$390.26		64	
				3	Round Cover UG-344/U	EAR99	PE-W137S001-3	\$367.90		65	
		1.07:1	4	CPR-137G	EAR99	PE-W137S002-3	\$366.77	66			
			6	Round Cover UG-344/U	EAR99	PEWSP1011	\$642.24	67			
			9	CPR-137G	EAR99	PEWSP1012	\$636.68	68			
		1.03:1	6	Round Cover UG-344/U	EAR99	PE-W137S001-6	\$370.32	69			
			9		EAR99	PE-W137S001-9	\$405.03	70			
			12	CPR-137G	EAR99	PE-W137S002-9	\$381.40	71			
		WRD-180	18 - 40	0.4	1.25:1	3	Square Cover UG	EAR99	PEWRD180S001-3	\$602.66	72
				0.5		6		EAR99	PEWRD180S001-6	\$1,009.85	73
WRD-650	6.5 - 18	0.3	1.15:1	3	EAR99	PEWRD650S001-3		\$537.50	74		
		0.4		6	EAR99	PEWRD650S001-6		\$912.12	75		
WRD-750	7.5 - 18	0.3	1.15:1	3	EAR99	PEWRD750S001-3		\$537.50	76		
		0.4		6	EAR99	PEWRD750S001-6		\$912.12	77		
										78	
											79
											80

WAVEGUIDE TERMINATIONS



Waveguide Type	RF Frequency (GHz.)	Input Power (Watts)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-10	75 - 110	0.4	1.06:1	2	Round Cover UG-387/U	EAR99	PEW10TR0001	\$557.93	See Web for Volume Pricing	81
		0.4	1.25:1		Round Cover UG-387/U-Mod	EAR99	PE-W10TR1001	\$588.37		82
WR-12	60 - 90	0.6	1.2:1	Round Cover UG-387/U	EAR99	PE-W12TR1001	\$570.31	83		
WR-15	50 - 75	1	1.2:1	Round Cover UG-385/U	EAR99	PEW15TR0001	\$599.02	84		
WR-19	40 - 60	2	1.06:1	Round Cover UG-383/U	EAR99	PEW19TR0001	\$502.93	85		
		2	1.09:1	Round Cover UG-383/U-Mod	EAR99	PE-W19TR1001	\$530.38	86		
WR-22	33 - 50	4	1.05:1	Round Cover UG-383/U	EAR99	PE-W22TR1002	\$518.28	87		
WR-28	26.5 - 40	0.5	1.3:1	1	Square Cover UG-599/U	EAR99	PE6800	\$485.38		88
		0.5	1.05:1	2	Square Cover	EAR99	PE6809	\$925.09		89
		0.5	1.02:1	Square Cover UG-599/U	EAR99	PEWTR1000	\$716.65	90		
	29.4 - 31	1	1.03:1	2	Square Cover UG-599/U	EAR99	PE-W28TR1003	\$532.13		91
		2	1.15:1	1	Square Cover UG-599/U	EAR99	PE-W28TR1002	\$374.46		92
		40	1.07:1	3	Square Cover	EAR99	PE6818	\$1,006.58	93	
		50	1.25:1	4	Square Cover UG-599/U	EAR99	PE-W28TR1004	\$886.88	94	
WR-34	22 - 33	0.5	1.25:1	1	Square Cover	EAR99	PE6801	\$384.32	95	
		0.5	1.05:1	3	Square Cover	EAR99	PE6810	\$889.49	96	
WR-42	19.6 - 21.2	1	1.15:1	1	Square Cover UG-597/U	EAR99	PE-W34TR1001	\$413.88	97	
		1	1.25:1	Square Cover UG-1530/U	EAR99	PEWTR1001	\$627.29	98		
	22 - 33	45	1.1:1	4	Square Cover	EAR99	PE6819	\$1,422.00	99	
		75	1.1:1	Square Cover	EAR99	PE6828	\$1,319.98	1		
WR-51	18 - 26.5	0.5	1.25:1	1	Square Cover UG-597/U	EAR99	PE6802	\$471.63	2	
		0.5	1.05:1	3	Square Cover	EAR99	PE6811	\$1,047.79	3	
	19.6 - 21.2	1	1.15:1	1	Square Cover UG-597/U	EAR99	PE-W42TR1002	\$374.46	4	
		1	1.02:1	Square Cover UG-595/U	EAR99	PEWTR1002	\$622.15	5		
		6	1.08:1	3	Square Cover UG-595/U	EAR99	PE-W42TR1001	\$559.12	6	
WR-51	15 - 18	50	1.07:1	4	Square Cover	EAR99	PE6820	\$938.93	7	
		100	1.1:1		Square Cover	EAR99	PE6829	\$997.21	8	
		1	1.2:1		Square Cover	EAR99	PE6803	\$432.67	9	
WR-51	15 - 22	1	1.05:1	3	Square Cover	EAR99	PE6812	\$1,082.72	10	
		1	1.02:1	Square Cover	EAR99	PEWTR1003	\$645.78	11		
									12	

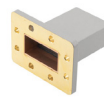
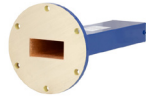


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WAVEGUIDE TERMINATIONS



Waveguide Type	RF Frequency (GHz.)	Input Power (Watts)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
WR-62	14.5 - 17.8	1	1.05:1	1	Square Cover UG-1665/U	EAR99	PE-W62TR1003	\$453.29	See Web for Volume Pricing	13
	12.4 - 18	1.5	1.02:1		Square Cover UG-419/U	EAR99	PEWTR1004	\$606.38		14
	11.9 - 18	2	1.03:1	4	Square Cover		PE6201A	\$536.43		15
	12.4 - 18	2	1.2:1	1	Square Cover	EAR99	PE6804	\$486.35		16
WR-75	10 - 15	60	1.07:1	4	Square Cover	EAR99	PE6836	\$971.89		17
		2	1.2:1	1	Square Cover	EAR99	PE6805	\$724.47		18
		2	1.05:1	4	Square Cover	EAR99	PE6814	\$874.79		19
		2.5	1.02:1		Square Cover	EAR99	PEWTR1005	\$653.06		20
		75	1.07:1	5	Square Cover	EAR99	PE6823	\$965.35		21
		175	1.1:1	6	Square Cover	EAR99	PE6832	\$1,472.62		22
WR-90	8.2 - 12.4	2	1.2:1	1	Square Cover UG-135/U	EAR99	PE6806	\$524.94		23
		2	1.05:1	4	Square Cover	EAR99	PE6815	\$841.14		24
	9 - 10	2	1.05:1	1	Square Cover UG-135/U	EAR99	PE-W90TR1001	\$492.71		25
		4	1.02:1		Square Cover UG-39/U	EAR99	PEWTR1006	\$598.53		26
	8.2 - 12.4	4	1.02:1		CPR-90G	EAR99	PEWTR1007	\$610.35		27
		50	1.25:1	4	Square Cover UG-135/U	EAR99	PE-W90TR1002	\$1,103.66		28
	8.2 - 12.4	90	1.07:1	6	Square Cover	EAR99	PE6824	\$1,245.89		29
		200	1.1:1		Square Cover	EAR99	PE6833	\$1,639.32		30
WR-102	7 - 11	300	1.1:1	7	Square Cover	EAR99	PE6834	\$1,677.04		31
WR-112	7.05 - 10	2	1.2:1	1	Square Cover	EAR99	PE6808	\$444.80		32
		5	1.02:1		Square Cover UG-51/U	EAR99	PEWTR1008	\$637.89		33
		5	1.02:1		CPR-112G	EAR99	PEWTR1009	\$690.97		34
		300	1.1:1	7	Square Cover UG-51/U	EAR99	PE6835	\$2,266.17		35
WR-137	5.85 - 8.2	6	1.02:1		Round Cover UG-344/U	EAR99	PEWTR1010	\$673.32		36
		6	1.02:1		CPR-137G	EAR99	PEWTR1011A	\$665.15		37
WR-159	5.38 - 8.17	500	1.25:1	14	CPR-137F	EAR99	PE-W137TR1001	\$2,601.50		38
	4.64 - 7.05	5	1.03:1	8	CPR-159F	EAR99	PE-W159TR1002	\$670.08		39
WR-187	4.8 - 5.2	50	1.2:1	4	CPR-159F	EAR99	PE-W159TR1001	\$1,241.63		40
	3.94 - 5.99	5	1.03:1	9	CPR-187F	EAR99	PE-W187TR1002	\$591.25		41
WR-229	3.22 - 4.9	70	1.1:1	3	CPR-187F	EAR99	PE-W187TR1001	\$709.50		42
		5	1.03:1	10	CPR-229F	EAR99	PE-W229TR1001	\$788.33		43
WR-284	2.6 - 3.95	5	1.2:1	3	CPR-229F	EAR99	PE-W229TR1002	\$867.16		44
		5	1.03:1	12	CPR-284F	EAR99	PE-W284TR1001	\$1,103.66		45
WRD-180	18 - 40	0.5	1.15:1		Square Cover UG	EAR99	PEWRD180TR1000	\$1,417.05		46
WRD-650	6.5 - 18	1	1.15:1	4	Square Cover UG	EAR99	PEWRD650TR1000	\$1,075.00		47
WRD-750	7.5 - 18	1	1.15:1		Square Cover UG	EAR99	PEWRD750TR1000	\$1,075.00		48

WAVEGUIDE TRANSITIONS



WG 1 Type	Flange 1 Type	WG 2 Type	Flange 2 Type	VSWR	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	R O W
WR-10	Round Cover UG-387/U-Mod	WR-12	Round Cover UG-387/U	1.6:1	EAR99	PE-W10TS12001A	\$1,328.18	See Web for Volume Pricing	49
		WR-15	Round Cover UG-385/U	1.45:1	EAR99	PE-W10TS15001	\$1,321.63		50
		WR-19	Round Cover UG-383/U-Mod	1.4:1	EAR99	PE-W10TS19001	\$1,363.82		51
WR-12	Round Cover UG-387/U	WR-15	Round Cover UG-385/U	1.2:1	EAR99	PE-W12TS15001	\$1,374.49		52
WR-15	Round Cover UG-385/U	WR-19	Round Cover UG-383/U-Mod	1.1:1	EAR99	PE-W15TS19001	\$1,374.49		53
		WR-22	Round Cover UG-383/U	1.15:1	EAR99	PE-W15TS22001	\$1,363.82		54
WR-19	Round Cover UG-383/U-Mod	WR-22	Round Cover UG-383/U	1.5:1	EAR99	PE-W19TS22001	\$1,321.63		55
		WR-28	Square Cover UG-599/U	1.35:1	EAR99	PE-W19TS28001	\$1,374.49		56
WR-22	Round Cover UG-383/U	WR-28	Square Cover UG-599/U	1.35:1	EAR99	PE-W22TS28001	\$1,374.49		57
		WR-42	Square Cover UG-595/U	1.35:1	EAR99	PE-W22TS42001	\$1,253.25		58
WR-28	Square Cover UG-599/U	WR-42	Square Cover UG-595/U	1.2:1	EAR99	PE-W28TS42001	\$1,253.25		59
		WR-51	UBR-180/U-Mod	1.38:1	EAR99	PE-W28TS51001	\$1,438.22		60
WR-34	Square Cover UG-1530/U	WR-28	Square Cover UG-599/U	1.08:1	EAR99	PEWTS1010	\$841.79	61	
WR-42	Square Cover UG-595/U	WR-34	Square Cover UG-1530/U	1.08:1	EAR99	PEWTS1009	\$816.31	62	
WR-62	Square Cover UG-1665/U	WR-51	Square Cover	1.08:1	EAR99	PEWTS1007A	\$837.24	63	

WAVEGUIDE TRANSITIONS



WG 1 Type	Flange 1 Type	WG 2 Type	Flange 2 Type	VSWR	ECCN	Model No	1-4	5-9	10-24	25+	ROW
WR-75	Square Cover	WR-62	Square Cover UG-1665/U	1.08:1	EAR99	PEWTS1006	\$882.92	\$838.77	\$794.63	\$759.31	64
WR-90	Square Cover UG-39/U	WR-75	Square Cover	1.08:1	EAR99	PEWTS1004	\$894.66	\$849.93	\$805.19	\$769.41	65
	CPR-90G	WR-75		1.08:1	EAR99	PEWTS1005A	\$888.99	\$844.54	\$800.09	\$764.53	66
WR-112	Square Cover UG-51/U	WR-90	Square Cover UG-39/U	1.08:1	EAR99	PEWTS1002	\$946.89	\$899.55	\$852.20	\$814.33	67
	CPR-112G	WR-90	CPR-90G	1.08:1	EAR99	PEWTS1003	\$898.78	\$853.84	\$808.90	\$772.95	68
WR-137	Round Cover UG-344/U	WR-112	Square Cover UG-51/U	1.08:1	EAR99	PEWTS1000	\$1,012.20	\$961.59	\$910.98	\$870.49	69
	CPR-137G	WR-112	CPR-112G	1.08:1	EAR99	PEWTS1001	\$1,018.75	\$967.81	\$916.88	\$876.13	70

WAVEGUIDE TWISTS



WG Type	RF Freq. (GHz.)	Max VSWR	WG Offset Angle (Deg)	Length (in)	Flange Type	ECCN	Model No	1-9	10-24	25-49	50+	ROW
WR-10	75 - 110	1.1:1	45 Left-hand	1	Round Cover UG-387/U-Mod	EAR99	PE-W10TW1002	\$456.33	\$433.51	\$410.70	\$392.44	71
			45 Right-hand		Round Cover UG-387/U-Mod	EAR99	PE-W10TW1003	\$449.59	\$427.11	\$404.63	\$386.65	72
			90		Round Cover UG-387/U-Mod	EAR99	PE-W10TW1001	\$430.35	\$408.83	\$387.32	\$370.10	73
WR-12	60 - 90	1.16:1	45 Left-hand	1	Round Cover UG-387/U	EAR99	PE-W12TW1002	\$456.33	\$433.51	\$410.70	\$392.44	74
			45 Right-hand		Round Cover UG-387/U	EAR99	PE-W12TW1003	\$456.33	\$433.51	\$410.70	\$392.44	75
			90 Right-hand		Round Cover UG-387/U-Mod	EAR99	PEW12TW001	\$510.49	\$484.97	\$459.44	\$439.02	76
			90		Round Cover UG-387/U	EAR99	PE-W12TW1001	\$510.49	\$484.97	\$459.44	\$439.02	77
WR-15	50 - 75	1.11:1	45 Left-hand	1	Round Cover UG-385/U	EAR99	PE-W15TW1002	\$449.59	\$427.11	\$404.63	\$386.65	78
			45 Right-hand		Round Cover UG-385/U	EAR99	PE-W15TW1003	\$456.33	\$433.51	\$410.70	\$392.44	79
			90		Round Cover UG-385/U	EAR99	PE-W15TW1001	\$430.35	\$408.83	\$387.32	\$370.10	80
			90		Round Cover UG-385/U	EAR99	PE-W15TW1002	\$449.59	\$427.11	\$404.63	\$386.65	81
WR-19	40 - 60	1.25:1	45 Left-hand	1	Round Cover UG-383/U-Mod	EAR99	PE-W19TW1002	\$449.59	\$427.11	\$404.63	\$386.65	82
			45 Right-hand		Round Cover UG-383/U-Mod	EAR99	PE-W19TW1003	\$449.59	\$427.11	\$404.63	\$386.65	83
			90		Round Cover UG-383/U-Mod	EAR99	PE-W19TW1001	\$396.25	\$376.44	\$356.63	\$340.78	84
WR-22	33 - 50	1.02:1	45 Left-hand	2	Round Cover UG-383/U	EAR99	PE-W22TW1002	\$449.59	\$427.11	\$404.63	\$386.65	85
			45 Right-hand		Round Cover UG-383/U	EAR99	PE-W22TW1003	\$449.59	\$427.11	\$404.63	\$386.65	86
			90		Round Cover UG-383/U	EAR99	PEW22TW001	\$396.25	\$376.44	\$356.63	\$340.78	87
			90		Round Cover UG-383/U	EAR99	PE-W22TW1001	\$402.18	\$382.07	\$361.96	\$345.87	88
WR-28	26.5 - 40	1.1:1	45 Right-hand	1	Square Cover UG-595/U	EAR99	PEW28TW001	\$481.07	\$457.02	\$432.96	\$413.72	89
			45 Left-hand		Square Cover UG-599/U	EAR99	PE-W28TW1002	\$488.27	\$463.86	\$439.44	\$419.91	90
			45 Right-hand		Square Cover UG-599/U	EAR99	PE-W28TW1003	\$488.27	\$463.86	\$439.44	\$419.91	91
			90		Square Cover UG-599/U	EAR99	PE-W28TW1001	\$402.18	\$382.07	\$361.96	\$345.87	92
WR-42	18 - 26.5	1.25:1	45 Left-hand	3	Square Cover UG-595/U	EAR99	PE-W42TW1002	\$475.67	\$451.89	\$428.10	\$409.08	93
			45 Right-hand		Square Cover UG-595/U	EAR99	PE-W42TW1003	\$475.67	\$451.89	\$428.10	\$409.08	94
			90		Square Cover UG-595/U	EAR99	PE-W42TW1001	\$419.57	\$398.59	\$377.61	\$360.83	95
WRD-750	7.5 - 18	1.25:1	90	8	Square Cover UG	EAR99	PEWRD750TW1001	\$912.12	\$866.51	\$820.91	\$784.42	96
WRD-180	18 - 40	1.35:1	90	3	Square Cover UG	EAR99	PEWRD180TW1001	\$1,009.85	\$959.36	\$908.87	\$868.47	97
WR-8	90 - 140	1.1:1	45 Right-hand	1	Square Cover UG-387/U-Mod	EAR99	PEW8TW0000	\$544.46	\$517.24	\$490.01	\$468.24	98
			45 Left-hand		Square Cover UG-387/U-Mod	EAR99	PEW8TW0001	\$536.43	\$509.61	\$482.79	\$461.33	99
			90 Right-hand		Round Cover UG-387/U-Mod	EAR99	PEW8TW0002	\$536.43	\$509.61	\$482.79	\$461.33	1
WR-6	110 - 170	1.1:1	45 Right-hand	1	Square Cover UG-387/U-Mod	EAR99	PEW6TW0000	\$544.46	\$517.24	\$490.01	\$468.24	2
			45 Left-hand		Square Cover UG-387/U-Mod	EAR99	PEW6TW0001	\$536.43	\$509.61	\$482.79	\$461.33	3
			90 Right-hand		Round Cover UG-387/U-Mod	EAR99	PEW6TW0002	\$544.46	\$517.24	\$490.01	\$468.24	4
WR-5	140 - 220	1.1:1	45 Right-hand	1	Square Cover UG-387/U-Mod	EAR99	PEW5TW0000	\$577.19	\$548.33	\$519.47	\$496.38	5
			45 Left-hand		Square Cover UG-387/U-Mod	EAR99	PEW5TW0001	\$568.68	\$540.25	\$511.81	\$489.06	6
			90 Right-hand		Round Cover UG-387/U-Mod	EAR99	PEW5TW0002	\$568.68	\$540.25	\$511.81	\$489.06	7
WRD-650	6.5 - 18	1.25:1	90	8	Square Cover UG	EAR99	PEWRD650TW1001	\$912.12	\$866.51	\$820.91	\$784.42	7



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WAVEGUIDE VARIABLE ATTENUATORS



Waveguide Type	RF Frequency (GHz.)	Flange Type	IL (dB)	Max Atten. (dB)	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	75 - 110	Round Cover UG-387/U-Mod	1	30	EAR99	PE-W10AT002-30	\$2,029.41	\$1,948.23	\$1,867.06	\$1,785.88	8
WR-12	60 - 90	Round Cover UG-387/U	0.4		EAR99	PE-W12AT002-30	\$2,098.22	\$2,014.29	\$1,930.36	\$1,846.43	9
WR-15	50 - 75	Round Cover UG-385/U	0.8		EAR99	PE-W15AT001-30	\$2,098.22	\$2,014.29	\$1,930.36	\$1,846.43	10
WR-19	40 - 60	Round Cover UG-383/U-Mod	0.6		EAR99	PE-W19AT001-30	\$2,048.32	\$1,966.39	\$1,884.45	\$1,802.52	11
WR-22	33 - 50	Round Cover UG-383/U	0.5		EAR99	PE-W22AT001-30	\$2,008.15	\$1,937.86	\$1,867.58	\$1,807.34	12

WAVEGUIDE ACCESSORIES



Waveguide Type	Description	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-10	WR-10 Waveguide Shim, UG-Cover Round flange, 2mm Brass	PEW10FS2	\$117.18	See Web for Volume Pricing	13
	WR-10 Waveguide Short Plate, UG-Cover Round Flange, 4mm Copper	PEW10SP4	\$106.15		14
WR-12	WR-12 Waveguide Shim, UG-Cover Round flange, 2mm Brass	PEW12FS2	\$106.15		15
	WR-12 Waveguide Short Plate, UG-Cover Round Flange, 4mm Copper	PEW12SP4	\$117.18		16
WR-15	WR-15 Waveguide Shim, UG-Cover Round flange, 2mm Brass	PEW15FS2	\$106.15		17
	WR-15 Waveguide Short Plate, UG-Cover Round Flange, 4mm Copper	PEW15SP4	\$106.15		18
WR-19	WR-19 Waveguide Shim, UG-Cover Round flange, 3mm Brass	PEW19FS3	\$106.15		19
	WR-19 Waveguide Short Plate, UG-Cover Round Flange, 4mm Copper	PEW19SP4	\$106.15		20
WR-22	WR-22 Waveguide Shim, UG-Cover Round flange, 3mm Brass	PEW22FS3	\$106.15		21
	WR-22 Waveguide Short Plate, UG-Cover Round Flange, 4mm Copper	PEW22SP4	\$106.15		22
WR-28	WR-28 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	PEWGK1014	\$115.66		23
	WR-28 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	PEWGK1000	\$49.46		24
	WR-28 Waveguide Shim, UG-Cover Square flange, 3mm Brass	PEW28FS3	\$139.58		25
	WR-28 Waveguide Short Plate, UG-Cover Square Flange, 5mm Copper	PEW28SP4	\$139.58		26
WR-34	WR-34 Waveguide Shim, UG-Cover Square flange, 4mm Brass	PEW34FS4	\$139.58		27
	WR-34 Waveguide Short Plate, UG-Cover Square Flange, 4mm Copper	PEW34SP4	\$139.58		28
WR-42	WR-42 Waveguide Shim, UG-Cover Square flange, 4mm Brass	PEW42FS4	\$136.17		29
	WR-42 Waveguide Short Plate, UG-Cover Square Flange, 4mm Copper	PEW42SP4	\$160.18		30
WR-42,	WR-42, WR-34 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	PEWGK1015	\$133.30		31
WR-42	WR-42, WR-34 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	PEWGK1001	\$47.88		32
WR-51	WR-51 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	PEWGK1016	\$144.44		33
	WR-51 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	PEWGK1002	\$48.03		34
WR-62	WR-62 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	PEWGK1017	\$211.09		35
	WR-62 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	PEWGK1003	\$54.67		36
	WR-62 Waveguide Shim, UG-Cover Square flange, 5mm Brass	PEW62FS5	\$70.77		37
	WR-62 Waveguide Short Plate, UG-Cover Square Flange, 5mm Copper	PEW62SP5	\$88.46		38
WR-75	WR-75 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	PEWGK1018	\$133.03		39
	WR-75 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	PEWGK1004	\$54.67		40
	WR-75 Waveguide Shim, UG-Cover Square flange, 5mm Brass	PEW75FS5	\$74.31		41
	WR-75 Waveguide Short Plate, UG-Cover Square Flange, 5mm Copper	PEW75SP5	\$88.46		42

WAVEGUIDE ACCESSORIES



Waveguide Type	Description	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-90	WR-90 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	PEWGK1019	\$186.51	See Web for Volume Pricing	43
	WR-90 Waveguide Electrically Conductive Gasket kit, CPR Flat Flange	PEWGK1021	\$135.29		44
	WR-90 Waveguide Electrically Conductive Gasket kit, CPR Grooved Flange	PEWGK1020	\$156.20		45
	WR-90 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	PEWGK1005	\$58.27		46
	WR-90 Waveguide Gasket kit, CPR90 Flat Flange, Non-Conductive	PEWGK1007	\$65.68		47
	WR-90 Waveguide Gasket kit, CPR90 Grooved Flange, Non-Conductive	PEWGK1006	\$65.68		48
	WR-90 Waveguide Shim, UG-Cover Square flange, 5mm Brass	PEW90FS5	\$74.31		49
	WR-90 Waveguide Short Plate, UG-Cover Square Flange, 5mm Brass	PEW90SP5	\$103.45		50
WR-112	WR-112 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	PEWGK1022	\$161.96	See Web for Volume Pricing	51
	WR-112 Waveguide Electrically Conductive Gasket kit, CPR Flat Flange	PEWGK1024	\$146.11		52
	WR-112 Waveguide Electrically Conductive Gasket kit, CPR Grooved Flange	PEWGK1023	\$202.89		53
	WR-112 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	PEWGK1008	\$58.27		54
	WR-112 Waveguide Gasket kit, CPR112 Flat Flange, Non-Conductive	PEWGK1010	\$67.65		55
	WR-112 Waveguide Gasket kit, CPR112 Grooved Flange, Non-Conductive	PEWGK1009	\$67.65		56
	WR-112 Waveguide Shim, UG-Cover Square flange, 5mm Brass	PEW112FS5	\$88.46		57
	WR-112 Waveguide Short Plate, UG-Cover Square Flange, 5mm Copper	PEW112SP5	\$88.46		58
WR-137	WR-137 Waveguide Electrically Conductive Gasket kit, CPR Grooved Flange	PEWGK1026	\$190.48	See Web for Volume Pricing	59
	WR-137 Waveguide Electrically Conductive Gasket kit, CPR Grooved Flange	PEWGK1027	\$161.96		60
	WR-137 Waveguide Electrically Conductive Gasket kit, Round Cover, Choke Flange	PEWGK1025	\$316.15		61
	WR-137 Waveguide Gasket kit Round Cover, Choke Flange, Non-Conductive	PEWGK1011	\$59.53		62
	WR-137 Waveguide Gasket kit, CPR137 Flat Flange, Non-Conductive	PEWGK1013	\$62.80		63
	WR-137 Waveguide Gasket kit, CPR137 Grooved Flange, Non-Conductive	PEWGK1012	\$69.76		64
	WR-137 Waveguide Shim, CPR-137F flange, 7mm Brass	PEW137FS7	\$108.94		65
	WR-137 Waveguide Short Plate, CPR-137F Flange, 7mm Copper	PEW137SP7	\$106.15		66
WR-159	WR-159 Waveguide Shim, CPR-159F flange, 7mm Aluminum	PEW159FS7	\$88.46	See Web for Volume Pricing	67
	WR-159 Waveguide Short Plate, CPR-159F Flange, 7mm Aluminum	PEW159SP7	\$88.46		68
WR-187	WR-187 Waveguide Shim, CPR-187F flange, 7mm Aluminum	PEW187FS7	\$88.46	See Web for Volume Pricing	69
	WR-187 Waveguide Short Plate, CPR-187F Flange, 7mm Aluminum	PEW187SP7	\$88.46		70
WR-284	WR-284 Waveguide Shim, CPR-284F flange, 8mm Aluminum	PEW284FS8	\$106.15	See Web for Volume Pricing	71
	WR-284 Waveguide Short Plate, CPR-284F Flange, 8mm Aluminum	PEW284SP8	\$106.15		72
WR-340	WR-340 Waveguide Shim, CPR-340F flange, 10mm Aluminum	PEW340FS10	\$125.62	See Web for Volume Pricing	73
	WR-340 Waveguide Short Plate, CPR-340F Flange, 10mm Aluminum	PEW340SP10	\$181.41		74
WR-430	WR-430 Waveguide Shim, CPR-430F flange, 10mm Aluminum	PEW430FS10	\$125.62	See Web for Volume Pricing	75
	WR-430 Waveguide Short Plate, CPR-430F Flange, 10mm Aluminum	PEW430SP10	\$180.60		76
	0.75 inch Diameter Flange, Standard Antenna Mounting Fixture with UG-385/U and UG-387/U Flanges	PEWAM0000	\$564.38	See Web for Volume Pricing	77
	0.75 inch Square Flange, Standard Antenna Mounting Fixture with UG-599/U Flanges	PEWAM0001	\$564.38		78
	0.88 inch Square Flange, Standard Antenna Mounting Fixture with UG-595/U and UG-1530/U Flanges	PEWAM0002	\$564.38		79
	1.125 inch Diameter Flange, Standard Antenna Mounting Fixture with UG-383/U Flanges	PEWAM0003	\$572.83		80
	4-40 with 3/32 inch Hex, Stainless Steel Waveguide Flange Screw	PEWGHW9000	\$5.13		81
	Waveguide Table Jack, Large	PEWGHW1001	\$374.09		82
	Waveguide Table Jack, Medium	PEWGHW1000	\$323.91		83

See Our Website For Current Pricing & Real-Time Stock Availability!

Waveguides



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PASTERNAK ENTERPRISES – REACH PRODUCT COMPLIANCE PROGRAM

OUR COMMITMENT

At Infinite Electronics, we maintain a comprehensive REACH compliance program to help customers with their green aspirations. We strive to have accurate and available material content data on all of our products. When data is not yet available, customer requests will be given top priority.

WHAT IS REACH?

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 is commonly referred to as REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals). The REACH regulation became effective on June 1, 2007 with the objective to improve protection of human health and the environment from exposure to chemicals. Under REACH, there is an obligation to ensure that articles do not contain any of the substances on the REACH Substances of Very High Concern (SVHCs) Candidate list in concentrations greater than 0.1% by weight. SVHCs are substances that may cause cancer or other serious health or environmental effects and thus face potential restriction or outright bans. The SVHC list is updated with additional substances at approximately every six months, thus product declarations must indicate the applicable SVHC release date.

OUR APPROACH

Infinite Electronics has partnered with Assent Compliance, a world class provider of compliance software and professional support staff, to obtain current material content data on our vast selection of electronic products. Together, we work with our supply chain to routinely collect and analyze this data which enables us to determine the state of compliance for each item we sell. As part of our process integration efforts, we are currently redesigning the way this data can be found on-line so that it is consistent across all brands. Once deployed, we will have a customer self-serve search engine tool to enable real-time creation of part number specific declarations. Until then, customers may request declarations directly from our Assent Compliance partners at InfiniteElectronicsRequests@assentcompliance.com. Please ensure you that you list all Infinite Electronics part numbers within your request.

PASTERNAK ENTERPRISES ROHS COMPLIANCE PROGRAM

Lead-free solder is now available for all cable assemblies upon request or online at www.Pasternack.com.

OUR COMMITMENT

At Infinite Electronics, we maintain a comprehensive RoHS compliance program to help customers with their green aspirations. We strive to have accurate and available material content data on all of our products. When data is not yet available, customer requests will be given top priority.

WHAT IS ROHS?

Short for Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment, RoHS was adopted in February 2003 by the European Union. Now in its third iteration as (EU) Directive 2015/863, RoHS guidelines and legislation are intended to reduce the presence of ten (10) materials deemed hazardous to the environment. To comply, products entering the EU must not have a homogeneous presence of these materials above the following levels by percentage of their weight:

- Lead (Pb) < 0.1%
- Mercury (Hg) < 0.1%
- Cadmium (Cd) < 0.01%
- DEHP < 0.1%
- DBP < 0.1%
- Hexavalent Chromium (CrVI) < 0.1%
- Polybrominated Biphenyls (PBB) < 0.1%
- Polybrominated Diphenyl Esters (PBDE) < 0.1%
- BBP < 0.1%
- DIBP < 0.1%

OUR APPROACH

Infinite Electronics has partnered with Assent Compliance, a world class provider of compliance software and professional support staff, to obtain current material content data on our vast selection of electronic products. Together, we work with our supply chain to routinely collect and analyze this data which enables us to determine the state of compliance for each item we sell. As part of our process integration efforts, we are currently redesigning the way this data can be found on-line so that it is consistent across all brands. Once deployed, we will have a customer self-serve search engine tool to enable real-time creation of part number specific declarations. Until then, customers may request declarations directly from our Assent Compliance partners at InfiniteElectronicsRequests@assentcompliance.com. Please ensure you that you list all Infinite Electronics part numbers within your request.



Technical Support
+1 (949) 261-1920



Same-Day Shipping,
Even Custom
Cable Assemblies

MAILING LIST CHANGES

If you receive more than one RF Product Guide with the same name and address, please notify Pasternack and pass the RF Product Guide along to a friend. Also, if you do not require multiple copies to the same company address, contact a sales representative to verify and modify your mailing information. A forms-based communications method to add, delete or modify mailing information is available at www.pasternack.com. By clicking "Contact Us", and then clicking "Remove Name from Mailing List", you may complete the form to request a change to your mailing preferences. In addition, by clicking "RF Product Guide", and then clicking "Request a Printed RF Product Guide", you may add your contact information to our mailing list. Please note service opt-in and opt-out options located on the forms. Alternatively, you may mail, email, telephone or fax Pasternack your request.

PLACING YOUR ORDER

► BY TELEPHONE: 866-PASTERNAK (866-727-8376) US & CANADA, OR 949-261-1920

Our friendly sales representatives are ready to serve you from 5:00am to 5:30pm Pacific Standard Time (PST), Monday through Friday. For the most efficient service, please have ready a list of quantities and part numbers and, if paying by credit card, your MasterCard, VISA, American Express or Discover card. Note: Calls may be recorded or monitored for quality and training purposes.

► BY FAX: 949-261-7451

Our fax lines can be accessed 7 days a week, 24 hours a day. Orders received after 4:00pm PST will be promptly processed and shipped the next business day. Please include your daytime phone number and/or email address in case we have any questions about your order.

► BY INTERNET: WWW.PASTERNAK.COM OR EMAIL: SALES@PASTERNAK.COM

Order online 7 days a week, 24 hours a day using our online ordering system. Just search for the items you want and add them to your shopping cart. Internet orders entered after 4:00 pm PST will be promptly processed and shipped the next business day.

► BY MAIL: SIMPLY MAIL YOUR ORDER TO: PASTERNAK ENTERPRISES.

17802 FITCH
PO BOX 16759
IRVINE, CA 92623-6759 USA

International customers, please see "International Orders" below for additional information.

TERMS AND CONDITIONS OF SALE:

The following from Pasternack's Binding Terms and Conditions of Sale are provided for your convenience. A complete documentation of the Binding Terms and Conditions of Sale may be found in the back of the RF Product Guide, or on Pasternack's website at <https://www.pasternack.com/t-terms-of-sale.aspx>. Any questions or clarifications may be answered by contacting Customer Service at (+1) 949-261-1920 or by any of the methods listed above.

NO MINIMUM ORDER REQUIREMENT

GROUND FREIGHT:

Shipping or freight charges and insurance will be paid by the customer. All sales are made FCA-Shipping Point (as defined by the INCOTERMS 2000) in Irvine, CA USA & Lewisville, TX USA. Shipping or freight charges from Pasternack's Irvine, CA factory are prepaid and added to the invoice or billed collect.

SAME-DAY SHIPMENT:

Same-day shipment will apply to orders received Monday through Friday, prior to 4:00pm PST.

- All UPS air and surface options
- All FedEx air options (with an approved account number)
- Most other shipping options, including DHL (with an approved account number) and USPS

COUNTER-TO-COUNTER SHIPPING:

For your urgent order requiring our fastest shipping method, we will place your order on the next available flight from Santa Ana-Orange County John Wayne International Airport (Airport code: SNA) and Dallas/Fort Worth International Airport (Airport Code: DFW) to the destination you specify. Please call for details.

PAYMENT TERMS:

Pasternack offers a number of convenient payment methods:

For United States customers, we offer check, money order, MasterCard, VISA, American Express, and Discover, as well as open account credit to qualified institutions and businesses. Payment must be made in US Dollars.

For Canadian customers, we offer all of the above payment options.

For International customers, see International Orders.

OPEN ACCOUNT CREDIT:

Net 30 Days terms are available to businesses, schools and agencies subject to credit approval. Approval can begin by submitting a completed Credit Application, which can be found online at: www.Pasternack.com/t-CreditApplication.aspx

EFT/WIRE TRANSFERS:

Please contact us for details. We will inform you of the total amount which will include shipping charges and any applicable wire transfer fees. Orders will not be accepted until funds have been received in full.

WELLS FARGO BANK
420 MONTGOMERY ST.
SAN FRANCISCO, CA 94104 USA
ACCOUNT NUMBER: 4270 0000 0000 0000 1
ROUTING NUMBER: 121000248
SWIFT NUMBER: WFBUS6S

INTERNATIONAL ORDERS:

In addition to the United States and its territories, Pasternack accepts international orders. All orders of international origin are exported from the US in accordance with the Export Administration Regulations. Diversion contrary to US Law is prohibited. Please see Pasternack's Binding Terms and Conditions of Sale for full details.

Pasternack has international distributors for the following countries:

Africa: Namibia, South Africa

Asia-Pacific: Australia, China PRC, India, Indonesia, Japan, Malaysia, New Zealand, Singapore, South Korea, Thailand

Europe: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Kazakhstan, Luxembourg, Netherlands, Norway, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, United Kingdom

Middle East: Israel

South America: Brazil

To access their complete contact information, please see our International Distributors section in this RF Product Guide. (inside back cover)

INTERNATIONAL SHIPPING CHARGES:

Shipping or freight charges and insurance will be paid by the customer. All sales are made FCA-Shipping Point (as defined by the INCOTERMS 2000) in Irvine, CA USA. We ship orders by UPS, FedEx (with an approved account number), or DHL (with approved account number) with delivery in 2 to 3 days to most locations worldwide.

INTERNATIONAL TAXES AND DUTIES:

Customer is responsible for duties and taxes.

BINDING TERMS AND CONDITIONS OF SALE

1. SCOPE; CHANGES

The terms and conditions stated herein (this "Agreement") govern all sales of products or services ("products") by Infinite Electronics, Inc. (collectively, "we," "us," "our," or "seller") to you or the entity you represent ("you" or "buyer"). You represent to us that you are lawfully able to enter into contracts (e.g., you are not a minor) and that if you are entering into this Agreement for an entity, such as the company you work for, you represent to us that you have the legal authority to bind that entity. Unless otherwise agreed to in writing by seller's authorized agent, any terms and conditions contained in buyer's purchase order or any other document that are different from or in addition to these terms and conditions are objected to, are rejected, and will not be binding on us. By placing an order for products from us, or by accepting delivery of the products described on the applicable packing slip, bill of lading and/or invoice received with the products, you agree to be bound by and accept these terms and conditions of sale.

We may change the terms and conditions of this Agreement in our sole discretion by posting an updated version of these terms and conditions at this location; provided, however, that the terms and condition of this Agreement in effect as of the date of an applicable order shall continue to govern such order and the products purchased thereunder.

2. ORDER ACCEPTANCE

a) Your receipt of an email or other form of order confirmation does not constitute our acceptance of your order or a confirmation of an offer to sell.

b) We reserve the right, without prior notification, to limit the order quantity on any item and/or refuse service to anyone.

c) All orders are subject to review and acceptance by us. You agree to provide complete and accurate contact information in connection with any order submitted to us. Verification of information may be required prior to the acceptance of any order.

d) In the case of pre-stocked finished goods, order acceptance is designated by fulfilling the order. In the case of products requiring post-order processing (including but not limited to design, material purchase, manufacturing or test), order acceptance is designated by performing activities unique to the order.

3. ORDER CANCELLATION

a) Orders fully or partially processed by seller may not be cancelled by buyer.

b) Products not previously stocked as finished goods are both Non-Cancelable and Non-Refundable ("NC/NR"). NC/NR products include cable assemblies, special orders, custom orders, orders for non-standard products, products not customarily in stock, scheduled orders requiring special procurements, or orders for products requiring assembly or manufacturing activities prior to shipping (not stored in completed state) as well as purchased services such as special testing or product modifications.

c) In the event of cancellation or other withdrawal of an order for any reason and without limiting any other remedy as a result of such cancellation or other withdrawal, reasonable cancellation or restocking charges, which shall include all expenses then incurred and commitments made by seller, shall be paid by buyer. Buyer's requests to reschedule are subject to acceptance by seller in its sole discretion. Orders may not be rescheduled after the order has been submitted by seller to the shipment carrier.

4. PRICES

a) Orders are billed at the prices (in US Dollars) in effect at the time of shipment.

b) Prices will be as specified within seller's website or as stated in seller's quote / proposal. If no period is specified, quoted prices will be applicable for thirty (30) days.

c) For catalog products, the website contains the most current catalog pricing and is the price reference for such orders. Pricing included in the catalog is for reference only and final pricing is determined by the published website price.

d) For non-catalog products and services, prices cited are based on current costs and are subject to reasonable adjustment on or after the date of acceptance of any purchase order to meet a rise or fall in such costs, as computed on the date of delivery.

e) Prices are subject to change without notice.

f) Prices are exclusive of taxes, impositions and other charges, including: sales, use, excise, value added and similar taxes or charges imposed by any government authority, international shipping charges, forwarding agent's and broker's fees, bank fees, consular fees, document fees and import duties.

5. TERMS OF PAYMENT

a) All payments must be in US Dollars, or will be converted to US Dollars using seller's standard exchange rate at the time of purchase.

b) MasterCard, VISA, Discover, and American Express credit cards, purchase cards and major bank debit cards are accepted. Payment via net thirty (30) days is available to businesses, schools and agencies or as otherwise specified by seller subject to credit approval.

c) For International Orders, MasterCard, VISA, and American Express credit cards are accepted. Payment via open credit account with Net thirty (30) days may be established for companies having three U.S. references accepted to seller. Prepaid Wire Transfer: You can wire the funds to our bank. We will contact you with the total amount, which will include shipping charges and a \$40 wire transfer fee. Orders will not be accepted until funds have been received in full and the Purchase Order (PO) has been received. Notwithstanding anything to the contrary in this Agreement, seller may add or remove payment options in seller's sole discretion.

d) Buyer acknowledges that seller has the right to reassess buyer's creditworthiness from time to time. To the extent such is in accordance with law, in the event there is a decline in buyer's creditworthiness, seller may, upon thirty (30) days written notice, revise the payment terms between the parties. Upon request, buyer shall provide financial data evidencing the buyer's worth in order for seller to determine the creditworthiness of buyer. Such information shall include, but not be limited to, annual reports, balance sheets, and bank records.

e) If buyer is delinquent in its payment obligations, without prejudice to any other remedies available to it by law or in equity, seller may demand immediate payment and at seller's option (i) suspend all further deliveries to be made under the purchase order or any further performance under any other contract with buyer or buyer's affiliates, in which event buyer shall not be released in any respect from its obligations to seller under the purchase order; (ii) recover all costs of collection including but not limited to reasonable attorneys' fees; (iii) repossess the product for which payment has not been made; (iv) charge interest at 1.5% per month on the past due amount, not to exceed the interest percentage allowed by law; and (vii) reassess the credit worthiness of buyer and change any current payment terms. Any discount from seller's rates, if any, shall cease to apply to the delinquent invoice, buyer shall be invoiced for such differences in cost, and shall immediately pay the resulting invoice.

6. TAXES AND DUTIES

a) Any taxes related to the products purchased are the responsibility of buyer (excluding taxes based on seller's net income), unless buyer presents an exemption certificate acceptable to seller and the applicable taxing authorities. If any exemption certificate presented by buyer is held to be invalid, then buyer will pay seller the amount of the tax and any penalties and interest related thereto.

b) If possible, seller will bill taxes as a separate item on the invoice presented to buyer.

c) Sales tax will be charged on product cost and shipping & handling where applicable and required by law. Any sales tax due that is not collected by the seller is the responsibility of the buyer.

d) International orders may be subject to various taxes and duties in the country of destination, all of which are the responsibility of the buyer. This includes sales, use, excise, value added and similar taxes or charges imposed by any government authority, international shipping charges, forwarding agent's and broker's fees, bank fees, consular fees, document fees and import duties.

7. SHIPPING COSTS

Shipping or freight charges and insurance will be paid by the buyer and added to the invoice or billed collect unless specifically stated in the quote or order confirmation based on seller practices or promotions.

8. DELIVERY AND TITLE

a) Unless otherwise agreed to in writing, all products are shipped Incoterms 2010 - FCA Shipping Point. Subject to seller's right of stoppage in transit, delivery of the products to the carrier will constitute delivery to buyer and title and risk of loss will pass to buyer.

b) Seller will make reasonable efforts to initiate shipment and schedule delivery as close as possible to buyer's requested delivery date(s). Buyer acknowledges that delivery dates provided by seller are estimates only and that seller will not be liable for failure to deliver on such dates.

c) Selection of the carrier and delivery route will be made by seller unless specifically designated by buyer.

d) Seller reserves the right to make deliveries in installments. Delay in delivery of one installment will not entitle buyer to cancel any other installment(s). Delivery of any installment of products within thirty (30) days after the date requested will constitute a timely delivery. Delivery of a quantity that varies from the quantity specified shall not relieve buyer of the obligation to accept delivery and pay for the products delivered.

e) Deliveries shall be made during normal business hours Monday through Friday. One attempt to deliver will be made. Should delivery need to be rescheduled, any additional costs incurred for redelivery and/or storage fees will be charged to the buyer. Seller shall use reasonable efforts to make timely delivery but shall be excused from any delays arising out of causes beyond its reasonable control. Any specific delivery dates that may be stated are approximate.

f) If completion of delivery is prevented through no fault of seller, seller may specify a reasonable alternative place of delivery. Buyer agrees that all costs of storage and transport incurred following an initial attempt at delivery are hereby allocated to and imposed upon buyer, and shall be added by seller to the sale price. Delivery may at any time be withheld by seller pending payment of any sum due from the buyer to seller. Seller will return Product via the incoming method unless an alternative method has been indicated on the purchase order or a change authorized by the buyer representative.

g) Deliveries made outside the 48 contiguous States may be subject to modified terms and conditions as stated within the order quote.

9. LIMITED WARRANTY

a) Products manufactured and/or branded by seller are warranted for a period of one year from time of delivery against defects in workmanship or materials or failure to operate as described in product data sheets under normal use. In some cases, the warranty period may exceed one year where a written warranty description specific to a certain product is stated in a contract or posted on a company website, product catalog or user's manual. Accessories and consumable goods such as batteries, chargers and accessory cables are warranted for four months.

b) Products manufactured by seller in accordance with buyer's instructions or specifications provided by seller are warranted for a period of one year from time of delivery against defects in workmanship or materials only under normal use. In some cases, the warranty period may exceed one year where a written warranty description specific to a certain product is stated in a contract or posted on a company website, product catalog or user's manual.

c) Calibration services are warranted for a period of one year from time of completion against defects in workmanship or materials or failure to operate as described in product data sheets under normal use.

d) The warranties set forth in this Section 9 shall not apply to any defect, failure, or damage arising from or in connection with: (i) improper use, or improper or inadequate maintenance and care; (ii) modifications to or repairs of the products performed by any party other than seller; (iii) combination of the products with any other technology, equipment, hardware, software, or other materials; (iv) use of the products in an environment not meeting the operating specifications for the products; (v) failure to properly transport, prepare, and store the products; (vi) acts of God; or (vii) any normal wear and tear or normal environmental degradation.

e) Products solely distributed by seller without alteration carry the warranty of the respective manufacturer only.

f) Seller will at seller's option and in seller's sole discretion, repair, replace or refund any products that are returned under warranty, and Seller's repair, replacement, or refunding of the price paid for a product under warranty shall be seller's sole liability, and buyer's sole remedy, for any breach of the warranties in this Section 9.

g) This warranty applies to the original purchaser only and is not transferable.

h) This warranty does not cover damage incurred during shipment which is the responsibility of the freight shipping company.

i) Buyer will bear the costs of access, de-installation, re-installation and transportation of the products to seller and back to buyer in connection with any warranty claims. Seller will reimburse the costs of transportation to seller and bear the costs of returning the repaired product or sending replacement product to buyer if the product is found to be covered under warranty.

j) Any repair or replacement pursuant to this limited warranty for products manufactured and/or branded by seller shall be warranted against the same defects re-occurring in a period of 12 months from time of delivery of the repaired or replaced product, or until the expiration of the original product warranty, which ever shall be the latter.

k) This limited warranty and remedies are expressly conditioned upon: (i) buyer's payment of the purchase price in full, (ii) buyer giving written notice of the defect, reasonably described, to seller within ten (10) days of the time when buyer discovers or ought to have discovered the defect, (iii) the storage, installation, operation, use, and maintenance of the products in compliance with product instructions, (iv) the existence of proper records of buyer's operation and maintenance of the products during the warranty period, (v) buyer providing seller with a reasonable opportunity to examine the products and the aforementioned records, and (vi) the absence of any unauthorized modification or repair of the products, including without limitation the removal or alternation of any serial numbers or product identifications.

l) THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESSED, IMPLIED OR STATUTORY. ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT ARE HEREBY DISCLAIMED.

10. RETURNS

a) Buyers wishing to return products must first obtain a Return Material Authorization (RMA) number from a Customer Service representative. Unauthorized returns will not be accepted at point of receipt. The RMA number must be printed on the outside of the package in order for it to be received and processed. Merchandise must be shipped prepaid.

b) Seller will determine in seller's sole discretion the appropriate remedies for returned items based on the product's limited warranty and circumstances of the return including a possible refund of purchase price, credit for future purchase, replacement, repair, return to buyer as-is, scrap with consent, and refund of shipping expenses.

c) Items stocked as finished goods and ordered in error must have a Return Material Authorization (RMA) number issued within 30 days of the original order. These parts are eligible for full credit only if the returned products and packaging are in mint and salable condition. A repackaging/restocking charge not to exceed 25% of the sale price may be charged on any products not returned unopened. Under no circumstances will credit be issued after 30 days from date of invoice or for orders exceeding \$500.00 in total value. All freight charges are the responsibility of buyer.

d) Products not previously stocked as finished goods are not returnable unless found to be defective. These include cable assemblies, special orders, custom orders, orders for non-standard products, products requiring assembly or manufacturing activities prior to shipping (not stored in completed state).

e) Defective items must have a Return Material Authorization (RMA) number marked on the package prior to shipping.

f) After 30 days from invoice all merchandise returns for distributed products not manufactured by seller must be handled directly with that manufacturer in accordance with their warranty.

11. ORDER DISCREPANCIES

Claims for shortages, incorrect materials or invoicing errors must be made by buyer in writing within ten (10) business days after receipt of shipment. Claims for nonreceipt of shipment must be made in writing within ten (10) business days after receipt of invoice. No products shall be returned without seller's express instructions. Buyer must provide in writing the order number and describe all defects associated with the order.

12. LIMITATION OF LIABILITIES; INDEMNITY

a) IN NO EVENT WILL SELLER BE LIABLE TO BUYER OR TO ANY THIRD PARTY FOR ANY DELAY, FAILURE TO GIVE NOTICE OF DELAY, LOSS OF USE, SECURITY OR DATA BREACH, LOSS OF REVENUE OR PROFIT OR LOSS OF DATA, RECALL COSTS, SERVICE INTERRUPTIONS, DOWNTIME, TESTING, INSTALLATION, REPLACEMENT, OR REMOVAL COSTS, OR FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, EXEMPLARY, SPECIAL OR PUNITIVE DAMAGES, WHETHER ARISING OUT OF BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, REGARDLESS OF WHETHER SUCH DAMAGE WAS FORESEEABLE AND WHETHER OR NOT SELLER HAS BEEN ADVISED OF



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Same-Day Shipping,
Even Custom
Cable Assemblies

THE POSSIBILITY OF SUCH DAMAGES. SELLER'S AGGREGATE LIABILITY FOR ANY CLAIMS ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID BY BUYER FOR THE PRODUCTS WHICH ARE THE SUBJECT OF THE CLAIM. THE DISCLAIMERS AND LIMITATIONS IN THIS SECTION 12 WILL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY AND TO THE MAXIMUM EXTENT PERMITTED UNDER APPLICABLE LAW.

b) Buyer shall defend seller from and against any claims, actions, proceedings, or suits brought by any third party (i) alleging infringement of intellectual property rights arising out of or in connection with seller's compliance with buyer's drawings, specifications, requirements or instructions or (ii) arising out of or in connection with the products supplied by seller and incorporated into the buyer's products (each a "Claim") and shall indemnify and hold harmless seller from any costs, liabilities, damages, fines, judgments, or expenses (including reasonable attorneys' fees) arising out of or in connection with any Claim.

13. EXPORT COMPLIANCE

a) Items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) identified in the invoice. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations. Buyer agrees to comply with all applicable export control laws, restrictions and regulations of the United States and those of the buyer's country, and shall not export, or transfer for the purpose of re-export, any product to any embargoed country or region, including but not limited to Cuba, the Crimean Region of Ukraine, Iran, North Korea, Sudan, and Syria, or to any denied, blocked, or designated person or entity as mentioned in any such United States or EU law or regulation. Buyer represents and warrants that it is not on the Denied Persons, Specially Designated Nationals or Debarred Persons List, as identified by the U.S. Treasury Office of Foreign Asset Control (OFAC) and by the U.S. Department of Commerce, Bureau of Industry and Security (BIS), or any other United States list of prohibited persons; is not owned or controlled by any person that is on one of those lists, or is otherwise prohibited by United States or other law from purchasing the products or services hereunder, and shall notify the seller immediately if buyer's status related to the above changes. Buyer shall be solely responsible to obtain any license to export, re-export or import as may be required. Buyer also agrees that it will not use these products in connection with the proliferation of weapons of mass destruction, including missiles, nuclear, chemical or biological weapons.

b) Seller shall not be liable for delays or refusals by governmental authorities or other authorities to grant licenses or approvals, nor for suspension or revocation thereof, nor for changes in export classification. Buyer must deliver requested information, including requested end-user information, necessary for export licenses to be granted, and or necessary for seller to determine if a license or other type of authorization is required.

c) For all custom orders, buyer shall provide seller with export classification information for all buyer property and information (including buyer drawings) delivered to seller in relation to this order. Export classification information includes the applicable export control classification, the country of origin and, for hardware only, the Harmonized Tariff Code. For such custom orders, seller will supply buyer with similar export classification information for products and/or information for which seller has design authority. Buyer and seller will promptly notify the other upon a change in classification information if any occurs prior to delivery.

14. GOVERNING LAW; VENUE

a) All matters arising out of or relating to this agreement, or a breach thereof, are governed by and construed in accordance with the internal laws of the State of California without giving effect to any choice or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of the laws of any jurisdiction other than those of the State of California.

b) Any legal suit, action or proceeding arising out of or relating to this agreement, or a breach thereof, will be instituted in the federal or State courts located in the city of Irvine, California or its closest California venue. Each party irrevocably submits to the exclusive jurisdiction of the courts in any legal suit, action or proceeding.

15. LEGAL NOTICES

Any legal notice sent to seller from buyer, required or permitted hereunder, will be deemed to have been effectively delivered if in writing and served by personal delivery or sent by registered or certified mail with return receipt requested, postage prepaid, to seller at the primary address specified as seller's place of business.

16. INTELLECTUAL PROPERTY

a) Notwithstanding delivery of and the passing of title in any product, nothing in these terms and conditions shall have the effect of granting or transferring to, or vesting in, buyer any intellectual property rights in or to any products.

b) The drawings, text, product depictions, logos, content, product descriptions, and organization and taxonomy of seller's website, catalogue, product guides or other documents and media owned by the seller and of the described content there within are proprietary to the seller and protected by intellectual property laws, including but not limited to United States Copyright law and United States Trademark law. Whether seller owns copyrights in these works or not, their content and the selection, arrangement, coordination and structure of the arranged content there within are the sole property of the seller. Use of the above stated materials does not give anyone the right to modify, reproduce, transmit, publish, publicly display, adapt, or create derivative works or in any way exploit any of the materials without express written permission of the seller.

c) All trademarks referenced in seller's catalog or website or depicted within any seller's documents or digital media, whether registered in United States or other countries, may not be used without permission of the respective trademark owner. This applies to seller owned trademarks as well as those of seller's suppliers.

d) SELLER MAKES NO REPRESENTATION OR WARRANTY THAT THE PRODUCTS (OR BUYER'S USE OR EXPLOITATION THEREOF) WILL NOT INFRINGE ANY INTELLECTUAL PROPERTY RIGHTS.

17. SOFTWARE

a) To the extent that the product or services contain or are software, seller hereby grants to buyer a non-exclusive, non-transferable, personal license to use the software and related documentation. Buyer's use conclusively evidences its acceptance of this license. Title to the software shall at all times remain with seller. Buyer agrees that the software, all enhancements, related documentation, and derivative works are, and will remain the sole property of seller and includes valuable trade secrets. Buyer agrees to treat the software and related documentation as confidential and to not copy, reproduce, sub-license, or otherwise disclose the software and related documentation to third parties. Buyer agrees to not disassemble, decompile, reverse engineer, create derivative works from or otherwise translate, customize, localize, modify, add to, or in any way alter, rent, or loan the software or related documentation unless the operation is specifically authorized by law.

b) Third party product software Licenses are separate end user license agreements ("EULA") and not issued pursuant to the above stated personal license.

c) Buyer agrees to defend, indemnify and hold harmless seller from all damages and third party claims arising from unauthorized use or transfer of the software or firmware.

d) If the software is licensed for use in the performance of a U.S. Government prime contract or subcontract, buyer agrees that consistent with FAR 12.211 and 12.212, commercial computer software, computer software documentation and technical data for commercial items are licensed under seller's standard commercial license.

18. CONFIDENTIAL INFORMATION

Buyer agrees that all confidential information furnished by or obtained from seller in connection with the sale of items hereunder (including product data and manufacturing process data) shall be adequately safeguarded to prevent unauthorized disclosure. Buyer agrees not to (i) disclose any such information to any other person or entity, or (ii) use such information for any purpose, other than performing authorized activities directly related to the governing contract.

19. TOLERANCES

Unless otherwise agreed to in writing by seller, standard tolerances as described on seller's drawings, websites and/or posted catalog datasheets shall apply.

20. PRODUCT LINE CHANGES

Product specifications and availability are subject to change without notice. Seller reserves the right to change specifications or discontinue items at seller's sole discretion for any reason whatsoever including, but not limited to changing market conditions, product discontinuation, component unavailability, manufacturing cost changes and errors in advertisements.

21. FCC PART 15 AND PART 97 NOTICE

For systems operating within the jurisdiction of the United States Federal Communications Commission (FCC), buyer acknowledges that any amplification device it purchases is intended for use only in a transmission system certified under Part 15, Part 97 or other applicable section of the rules and regulations of the FCC, or that a legal exception to this requirement applies.

22. ASSIGNMENT

Buyer shall not assign this Agreement or any order hereunder without the prior written consent of the seller. Any assignment in violation of the foregoing will be void and of no force or effect. Seller may assign this Agreement or any order hereunder in seller's sole discretion and without restriction. This Agreement will be binding upon and inure to the benefit of the parties, their successors, and permitted assigns.

23. RELATIONSHIP

Nothing in this Agreement or any product or service orders shall be construed to place the buyer or seller in the relationship of partners or joint ventures, and the buyer and seller shall have no power to obligate or bind the other in any manner whatsoever.

24. WAIVER

No waiver by seller of any breach of this Agreement by the buyer shall be considered as a waiver of the subsequent breach of the same or any other provision.

25. SEVERABILITY

If any provision or portion of this Agreement shall be adjudged invalid or unenforceable by a court of competent jurisdiction or by operation of any applicable law, that provision or portion of this Agreement shall be deemed omitted and the remaining provisions and portions shall remain in full force and effect.

26. LIENS AND TITLE

a) Buyer hereby grants to seller a security interest in any property owned by the buyer (including buyer's beneficial rights to property leased by seller) in the possession of seller or any of seller's affiliates, at any time, to secure all amounts owed by buyer to seller under this Agreement.

b) In the case of repairs or overhauls performed pursuant to this Agreement, buyer grants seller a perfected security interest in all products retained in possession of seller upon which any repair or overhaul services have been performed by seller. Buyer further acknowledges and agrees that, in addition to the security interest and lien expressly granted by buyer to seller, seller shall have a lien on the product retained in possession of seller to the extent otherwise provided by law. Buyer acknowledges that the lien (whether granted by buyer or through the operation of law) for repairs or overhaul shall be for the full value of such work, and shall be superior to any lien or interest in favor of buyer, its parents, affiliates, or subsidiaries, or any other person who has knowledge of this Agreement. To the extent that seller maintains possession of product under repair, buyer agrees that seller is a secured creditor of buyer and has all the rights of a secured creditor.

c) With respect to products sold pursuant to this Agreement, buyer agrees and acknowledges that seller shall retain a security interest in such product, unless and until all payment for such products has been made and all other covenants and agreements of this Agreement have been performed in full. Accordingly, buyer agrees that it will not suffer or permit any lien or encumbrance to be established that effects the title to the product sold by seller pursuant hereto until seller has been paid in full. Buyer agrees that, in the event of buyer's insolvency, or in the event that any petition is filed by or against buyer under Chapter 7 or Chapter 11 of the Bankruptcy Code, seller may, at its discretion, recover all products sold pursuant to this Agreement and/or seek damages or costs under applicable laws.

27. STORAGE FEES

A storage fee will be applied monthly up to the maximum allowed by law on all repaired and overhauled units if delivery is not taken within five (5) days of notification.

28. FORCE MAJEURE

Notwithstanding anything else in this Agreement, no default, delay, or failure to perform on the part of seller will be considered a breach of this Agreement if such default, delay, or failure to perform is shown to be due to causes beyond reasonable control of seller, including, but not limited to, causes such as strikes, lockouts or other labor disputes, riots, civil disturbances, actions or inactions of governmental authorities or suppliers, epidemics, war, embargoes, severe weather, fire, earthquakes, acts of God or the public enemy, nuclear disasters, or default of a common carrier.

29. ENTIRE AGREEMENT; CONSTRUCTION; SURVIVAL

This Agreement sets forth the entire agreement and understanding of the Parties relating to the subject matter herein and supersedes all prior and contemporaneous communications, representations, discussions, and agreements between the Parties with respect to such subject matter. The titles and section headings used in this Agreement are for ease of reference only and shall not be used in the interpretation or construction of this Agreement. No rule of construction resolving any ambiguity in favor of the non-drafting party shall be applied hereto. The word "including", when used herein, is illustrative rather than exclusive and means "including, without limitation." In the event of any termination or expiration of this Agreement, buyer's obligations to pay amounts due hereunder and arising prior to the date of termination or expiration, as well as Sections 9, 12-18, and 21-29 shall survive such termination or expiration.

WARNING:

Products in this catalog can expose you to chemicals including phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. For specific products impacted, please visit www.pasternack.com.

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PE35296	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751R	126	18	PE39287	Web		PE39490	182	4				
PE35297	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751S	126	19	PE39288	Web		PE39491	182	4				
PE35298	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751T	126	20	PE39289	Web		PE39492	182	4				
PE35299	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751U	126	21	PE39290	Web		PE39493	182	4				
PE35300	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751V	126	22	PE39291	Web		PE39494	182	4				
PE35301	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751W	126	23	PE39292	Web		PE39495	182	4				
PE35302	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751X	126	24	PE39293	Web		PE39496	182	4				
PE35303	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751Y	126	25	PE39294	Web		PE39497	182	4				
PE35304	109	73	PE36073	Web		PE37526	112	58	PE38274	166	26	PE38751Z	126	26	PE39295	Web		PE39498	182	4				
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PEC30103	163	PEC3251	164	PEC34044	133	PEC34471	176	PEC34950	113	PEC35882	96	PEC36357	110	PEC37855	214
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PEC30114	168	PEC3261	180	PEC34054	134	PEC34483	204	PEC34960	116	PEC35892	103	PEC36372	137	PEC37865	171
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PEC30133	146	PEC3275	122	PEC34068	133	PEC34499	203	PEC34976	113	PEC35906	183	PEC36386	107	PEC37880	157
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PE3M0002	93	6	PE3M0129	94	51	PE3C1C0103	353	75	PE3W00780	208	2	PE3W06020	221	95	PE4064	288	8	PE4193	267	84	PE4332	269	62
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PE3M0007	93	11	PE3M0134	94	45	PE3C1C0108	163	46	PE3W00906	173	61	PE3W06234	201	21	PE4068	287	65	PE4198	264	82	PE4337	268	69
PE3M0008	93	36	PE3M0135	94	69	PE3C1C0109	353	74	PE3W00921	182	90	PE3W06305	125	79	PE4069	287	76	PE4199	282	18	PE4338	284	71
PE3M0009	93	37	PE3M0136	94	70	PE3C1C0201	166	46	PE3W00934	191	55	PE3W06365	145	74	PE4070	288	88	PE4200	277	31	PE4339	284	72
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PE3M0011	93	42	PE3M0138	94	72	PE3C1C0202	171	67	PE3W01114	181	84	PE3W06410	175	23	PE4072	263	73	PE4202	278	78	PE4341	284	74
PE3M0012	93	43	PE3M0139	94	79	PE3C1C0202-24	353	76	PE3W01217	139	29	PE3W06417	147	16	PE4073	287	77	PE4203	276	33	PE4342	284	75
PE3M0013	93	44	PE3M0140	94	74	PE3C1C0301	166	47	PE3W01283	175	15	PE3W06425	182	15	PE4074	279	81	PE4204	248	81	PE4343	284	76
PE3M0014	93	39	PE3M0141	94	61	PE3C1C0301-24	353	81	PE3W01300	31	59	PE3W06441	151	38	PE4075	257	64	PE4205	248	82	PE4344	284	77
PE3M0015	93	40	PE3M0142	94	65	PE3C1C0302	137	29	PE3W01357	119	34	PE3W06444	218	10	PE4076	257	57	PE4206	247	33	PE4345	248	78
PE3M0016	93	41	PE3M0143	94	63	PE3C1C0302-24	353	79	PE3W01379	212	81	PE3W06468	130	49	PE4077	249	19	PE4207	247	34	PE4346	248	79
PE3M0017	93	45	PE3M0144	94	71	PE3C1C0303	163	47	PE3W01570	31	52	PE3W06580	208	5	PE4078	249	9	PE4208	249	10	PE4347	250	3
PE3M0018	93	47	PE3M0145	94	68	PE3C1C0303-24	353	80	PE3W01582	121	74	PE3W06629	186	22	PE4085	248	98	PE4209	249	9	PE4348	250	4
PE3M0019	93	49	PE3M0146	94	73	PE3C1C0401	166	48	PE3W01626	163	45	PE3W06660	182	16	PE4080	277	34	PE4210	247	50	PE4349	268	38
PE3M0020	93	46	PE3M0147	94	77	PE3C1C0401-24	353	82	PE3W01634	125	81	PE3W06682	158	16	PE4081	261	77	PE4211	248	64	PE4350	267	61
PE3M0021	93	48	PE3M0148	94	75	PE3C1C0500	99	52	PE3W01739	215	4	PE3W06701	175	12	PE4082	248	65	PE4212	248	65	PE4351	247	55
PE3M0022	93	50	PE3M0149	94	62	PE3C1C0500-24	351	63	PE3W01818	186	5	PE3W06709	210	44	PE4083	271	56	PE4213	270	3	PE4352	254	77
PE3M0023	94	86	PE3M0150	94	66	PE3C1C0500-48	351	63	PE3W01959	205	13	PE3W06717	202	45	PE4084	274	35	PE4214	269	59	PE4353	272	43
PE3M0024	94	87	PE3M0151	94	64	PE3C1C0600	103	59	PE3W01992	121	74	PE3W06744	186	22	PE4085	274	35	PE4215	269	63	PE4354	270	15
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PE3M0026	94	88	PE3M0153	94	58	PE3C1C0600-48	352	64	PE3W02172	178	90	PE3W06863	140	21	PE4089	300	6	PE4218	274	25	PE4356	277	30
PE3M0027	94	90	PE3M0154	94	60	PE3C1C0660	100	61	PE3W02209	127	71	PE3W06895	197	5	PE4091	249	16	PE4219	272	52	PE4357	277	30
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PE3M0029	93	12	PE3M0156	94	54	PE3C1C0670	214	38	PE3W02336	179	36	PE3W07034	218	9	PE4093	257	63	PE4221	261	73	PE4359	278	66
PE3M0030	93	13	PE3M0157	94	56	PE3C1C0700	107	57	PE3W02355	148	67	PE3W07044	186	22	PE4094	278	96	PE4222	263	10	PE4360	278	60
PE3M0031	93	14	PE3M0158	94	55	PE3C1C0700-24	352	65	PE3W02430	187	40	PE3W07068	131	93	PE4095	262	85	PE4223	263	11	PE4361	278	60
PE3M0032	93	15	PE3M0159	95	19	PE3C1C0700-48	352	65	PE3W02458	167	40	PE3W07094	123	27	PE4096	278	52	PE4224	267	10	PE4362	278	61
PE3M0033	93	16	PE3M0160	95	21	PE3C1C0800	97	11	PE3W02466	171	79	PE3W07181	177	88	PE4097	278	63	PE4225	267	70	PE4363	278	64
PE3M0034	93	17	PE3M0161	95	20	PE3C1C0800-24	352	66	PE3W02547	142	88	PE3W07225	173	80	PE4098	267	68	PE4226	267	67	PE4364	280	8
PE3M0035	93	18	PE3M0162	95	16	PE3C1C0800-48	352	66	PE3W02744	181	83	PE3W07265	149	76	PE4099	278	67	PE4227	267	68	PE4365	277	39
PE3M0036	93	19	PE3M0163	95	17	PE3C1C0800-500CM	352	66	PE3W02828	181	83	PE3W07284	206	25	PE4100	278	67	PE4228	267	69	PE4366	277	39
PE3M0037	93	52	PE3M0164	94	97	PE3C1C0900	97	11	PE3W02943	128	80	PE3W07334	131	93	PE4101	278	53	PE4229	267	70	PE4367	278	39
PE3M0038	93	53	PE3M0165	95	30	PE3C1C0900-24	352	67	PE3W02965	193	96	PE3W07396	131	60	PE4102	267	70	PE4230	264	71	PE4368	278	39
PE3M0039	93	57	PE3M0166	95	29	PE3C1C0900-48	352	67	PE3W02976	153	96	PE3W07452	161	19	PE4104	267	71	PE4231	264	72	PE4369	278	39
PE3M0040	93	58	PE3M0167	95	26	PE3C1C0950	94	25	PE3W02993	169	38	PE3W07480	124	65	PE4105	300	4	PE4232	268	28	PE4370	262	63
PE3M0041	93	59	PE3M0168	95	28	PE3C1C0950-24	218	35	PE3W03044	184	65	PE3W07491	96	6	PE4106	249	5	PE4233	268	27	PE4371	262	63
PE3M0042	93	59	PE3M0169	95	25	PE3C1C0970	214	36	PE3W03070	161	94	PE3W07499	200	16	PE4107	280	16	PE4234	264	78	PE4372	261	7
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PE6032	344	93	PE6204	345	49	PE61R1103	343	22	PE7206-40	81	24	PE7316-40	78	90	PE7388-40	78	93	PE7D0A112	72	23
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PE6034	345	27	PE6206	345	46	PE61R1105	343	23	PE7206-60	81	24	PE7317-3	79	2	PE7389-6	78	94	PE7D0A115	72	25
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PE6036	345	32	PE6208	345	52	PE61R1107	343	25	PE7207-6	80	13	PE7317-10	79	2	PE7389-15	78	94	PE7D0A121	72	23
PE6037	345	29	PE6209	345	40	PE61R1108	343	28	PE7207-10	80	13	PE7317-10	79	2	PE7389-20	78	94	PE7D0A122	72	24
PE6038	345	50	PE6210	345	42	PE61R1109	343	30	PE7207-20	80	13	PE7317-30	79	2	PE7389-30	78	94	PE7D0A123	72	24
PE6039	345	71	PE6211	345	72	PE61R1110	343	31	PE7207-30	80	13	PE7317-30	79	2	PE7389-40	78	94	PE7D0A124	72	24
PE6040	346	76	PE6212	346	75	PE61R1111	343	32	PE7207-40	80	13	PE7321-60	78	89	PE7390-1	74	37	PE7D0A125	72	24
PE6041	346	90	PE6213	345	66	PE61R1112	343	33	PE7207-50	80	13	PE7321-3	78	91	PE7390-2	74	37	PE7D0A131	72	23
PE6043	346	96	PE6214	346	70	PE61R1113	344	63	PE7207-60	80	13	PE7321-6	78	91	PE7390-3	74	37	PE7D0A200	72	20
PE6046	330	46	PE6215	346	64	PE61R1114	344	64	PE7208-30	81	25	PE7321-10	78	91	PE7390-6	74	37	PE7D0A201	72	20
PE6057	300	10	PE6216	346	78	PE61R1115	344	65	PE7208-60	81	25	PE7321-20	78	91	PE7390-10	74	37	PE7D0A202	72	20
PE6058	300	11	PE6217	345	61	PE61R1116	344	66	PE7208-10	81	25	PE7321-30	78	91	PE7390-15	74	37	PE7D0A203	72	20
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PE6069	343	48	PE6219	346	95	PE61R1118	343	38	PE7208-20	81	25	PE7321-50	78	91	PE7390-30	74	37	PE7D0A205	72	20
PE6070	343	11	PE6220	346	98	PE61R1119	343	39	PE7208-30	81	25	PE7322-30	78	98	PE7391-1	74	40	PE7D0A300	72	20
PE6071	343	50	PE6221	346	64	PE61R1120	344	40	PE7209-30	81	25	PE7322-6	78	98	PE7391-2	74	40	PE7D0A301	72	20
PE6072	343	49	PE6222	346	99	PE61R671	344	1	PE7209-60	81	25	PE7322-10	78	98	PE7391-3	74	40	PE7D0A400	72	20
PE6073	343	53	PE6223	344	68	PE61R672	344	2	PE7209-10	81	33	PE7322-20	78	98	PE7391-6	74	40	PE7D0A500	72	20
PE6076	344	89	PE6224	345	43	PE61R675	344	98	PE7209-15	79	10	PE7322-30	78	98	PE7391-10	74	40	PE7D0A501	72	20
PE6076	344	92	PE6225	344	10	PE61R677	344	99	PE7209-20	79	10	PE7322-40	78	98	PE7391-15	74	40	PE7D0A502	72	20
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PE6078	343	51	PE6227	346	5	PE7001	71	8	PE7209-30	79	10	PE7322-60	78	98	PE7391-25	74	40	PE7D0A504	72	20
PE6079	343	55	PE6228	345	73	PE7002	71	8	PE7209-35	79	10	PE7322-70	78	98	PE7391-30	74	40	PE7D0A505	72	20
PE6080	343	54	PE6229	345	68	PE7003	71	12	PE7209-40	79	10	PE7322-80	78	98	PE7391-35	74	40	PE7D0A506	72	20
PE6081	344	97	PE6230	345	69	PE7004	72	18	PE7209-45	79	10	PE7322-90	78	98	PE7391-40	74	40	PE7D0A507	72	20
PE6082	344	96	PE6231	343	15	PE7005	73	30	PE7209-50	79	10	PE7323-10	78	98	PE7391-45	74	40	PE7D0A508	72	20
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PE6088	343	5	PE6237	344	69	PE7011	75	41	PE7209-80	80	14	PE7323-70	78	98	PE7391-75	74	40	PE7D0A514	72	20
PE6089	344	9	PE6238	344	67	PE7012	74	39	PE7209-85	80	14	PE7323-80	78	98	PE7391-80	74	40	PE7D0A515	72	20
PE6090	343	51	PE6239	345	89	PE7013	75	49	PE7209-90	80	14	PE7323-90	78	98	PE7391-85	74	40	PE7D0A516	72	20
PE6091	344	13	PE6240	300	20	PE7014	76	51	PE7209-95	80	14	PE7324-10	78	98	PE7391-90	74	40	PE7D0A517	72	20
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PE6095	345	21	PE6800	385	88	PE7016	77	78	PE7209-105	80	20	PE7324-30	78	98	PE7391-100	74	40	PE7D0A519	72	20
PE6096	345	22	PE6801	385	96	PE7017	76	61	PE7209-110	80	20	PE7324-40	78	98	PE7391-105	74	40	PE7D0A520	72	20
PE6097	345	19	PE6802	385	3	PE7018	78	97	PE7209-115	80	20	PE7324-50	78	98	PE7391-110	74	40	PE7D0A521	72	20
PE6098	345	20	PE6803	385	3	PE7019	78	97	PE7209-120	80	20	PE7324-60	78	98	PE7391-115	74	40	PE7D0A522	72	20
PE6099	345	20	PE6804	385	10	PE7020	79	4	PE7209-125	80	20	PE7324-70	78	98	PE7391-120	74	40	PE7D0A523	72	20
PE6100	344	15	PE6805	386	18	PE7021	80	17	PE7209-130	80	20	PE7324-80	78	98	PE7391-125	74	40	PE7D0A524	72	20
PE6101	345	28	PE6806	386	18	PE7022	81	27	PE7209-135	80	20	PE7324-90	78	98	PE7391-130	74	40	PE7D0A525	72	20
PE6102	345	31	PE6807	386	18	PE7023	81	27	PE7209-140	80	20	PE7324-100	78	98	PE7391-135	74	40	PE7D0A526	72	20
PE6103	345	33	PE6808	386	23	PE7024	71	14	PE7209-145	80	20	PE7324-110	78	98	PE7391-140	74	40	PE7D0A527	72	20
PE6104	345	34	PE6809	386	32	PE7025	75	45	PE7209-150	80	20	PE7324-120	78	98	PE7391-145	74	40	PE7D0A528	72	20
PE6105	345	34	PE6810	385	97	PE7026	347	26	PE7209-155	80	20	PE7324-130	78	98	PE7391-150	74	40	PE7D0A529	72	20
PE6106	345	45	PE6811	385	97	PE7027	347	26	PE7209-160	80	20	PE7324-140	78	98	PE7391-155	74	40	PE7D0A530	72	20
PE6107	345	40	PE6812	385	11	PE7028	82	45	PE7209-165	80	20	PE7324-150	78	98	PE7391-160	74	40	PE7D0A531	72	20
PE6108	300	15	PE6813	386	19	PE7029	82	45	PE7209-170	80	20	PE7324-160	78	98	PE7391-165	74	40	PE7D0A532	72	20
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PE6110	300	18	PE6815	386	24	PE7031	82	39	PE7209-180	80	20	PE7324-180	78	98	PE7391-175	74	40	PE7D0A534	72	20
PE6111	300	22	PE6816	385	93	PE7032	82	40	PE7209-185	80	20	PE7324-190	78	98	PE7391-180	74	40	PE7D0A535	72	20
PE6112	300	22	PE6817	385	93	PE7033	82	40	PE7209-190	80	20	PE7324-200	78	98	PE7391-185	74	40	PE7D0A536	72	20
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PE6116	300	24	PE6821	386	29	PE7037	75	44	PE7209-210	80	20	PE7324-240	78	98	PE7391-205	74	40	PE7D0A540	72	20
PE6117	300	28	PE6822	386	29	PE7038	75	44	PE7209-215	80	20	PE7324-250	78	98	PE7391-210	74	40	PE7D0A541	72	20
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PE715S055	330	39	PE715S248	333	42	PE715S395	328	92	PE73SP1044	323	12	PE87020	314	94	PE87022	308	12
PE715S056	330	50	PE715S249	333	58	PE715S396	328	93	PE73SP1045	323	5	PE87019	314	95	PE87023	308	10
PE715S057	330	51	PE715S250	333	61	PE715S397	328	88	PE73SP1046	322	65	PE87018	314	96	PE87024	308	15
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PE9103	34	E3	PE9257	44	A1	PE9400	37	E7	PE9547	30	B1	PE9697	27	B1	PE9852B/2F-20	360	83	PE91045	36	C5	PE91230	23	D3
PE9104	33	D3	PE9258	32	E4	PE9401	40	A1	PE9548	37	C1	PE9698	27	C1	PE9852B-20	361	83	PE91046	38	B3	PE91231	23	D3
PE9105	37	A3	PE9259	36	A6	PE9402	40	C2	PE9550	31	E7	PE9699	44	D1	PE9853B/SF-10	360	10	PE91048	19	B6	PE91233	22	A4
PE9106	25	C7	PE9260	38	B6	PE9403	33	D5	PE9551	39	C2	PE9700	44	E1	PE9853B-10	361	84	PE91049	39	B6	PE91234	22	C4
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PE9111	32	C1	PE9264	27	C6	PE9406	26	D2	PE9554	37	B1	PE9704	31	E3	PE9853B-20	361	86	PE91052	39	C7	PE91237	30	E2
PE9112	32	D2	PE9265	28	C5	PE9407	27	C5	PE9555	23	A7	PE9705	28	E7	PE9853B/NF-10	360	12	PE91054	39	B7	PE91238	30	D6
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PE9148	39	B5	PE9301	41	B7	PE9451	18	E7	PE9587	47	E1	PE9739	46	A5	PE9857B/SF-15	361	97	PE91094	22	E6	PE91271	36	A8
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PE9151	26	B4	PE9304	41	B5	PE9454	20	D6	PE9594	35	C7	PE9742	45	C6	PE9857B/SF-20	360	31	PE91101	42	E1	PE91298	20	B3
PE9152	26	B2	PE9305	41	C4	PE9455	20	E3	PE9595	30	A2	PE9743	45	D6	PE9857B-20	361	98	PE91102	42	E1	PE91299	38	B7
PE9153	26	C4	PE9306	46	E1	PE9456	20	A7	PE9596	40	B6	PE9744	45	C7	PE9858B/NF-10	360	32	PE91103	36	E7	PE91307	38	E7
PE9154	26	D3	PE9307	46	E1	PE9457	20	C3	PE9597	40	B7	PE9745	45	B6	PE9858B/SF-10	360	34	PE91104	36	E7	PE91311	38	E7
PE9155	26	D3	PE9308	46	B3	PE9458	19	C3	PE9598	40	D6	PE9746	21	A5	PE9858B-10	361	99	PE91105	48	D5	PE91302	36	A7
PE9158	26	D4	PE9309	41	D1	PE9460	20	A5	PE9599	40	E6	PE9747	18	C5	PE9858B/NF-15	360	32	PE91106	48	B5	PE91303	36	B7
PE9160	45	A5	PE9310	41	B1	PE9461	21	A1	PE9600	40	B5	PE9748	21	A7	PE9858B/SF-15	360	34	PE91107	48	C5	PE91304	36	D7
PE9163	45	E7	PE9311	29	E7	PE9462	32	B6	PE9602	40	C5	PE9749	33	D7	PE9858B-15	361	1	PE91108	18	B2	PE91305	39	D5
PE9164	45	E5	PE9312	35	C3	PE9463	32	A6	PE9603	40	D5	PE9750	25	E2	PE9858B/NF-20	360	33	PE91109	18	D2	PE91306	39	E5
PE9168	45	C5	PE9313	34	A5	PE9464	32	B4	PE9604	40	D5	PE9751	25	B2	PE9858B/SF-20	360	35	PE91111	18	D2	PE91312	37	A5
PE9166	45	E5	PE9314	31	C6	PE9465	31	E4	PE9605	40	A7	PE9752	25	C2	PE9858B-20	361	2	PE91113	20	A2	PE91317	37	A5
PE9167	45	A2	PE9315	32	C7	PE9466	28	B3	PE9606	40	D7	PE9753	25	E1	PE9858B/NF-10	360	36	PE91114	29	C7	PE91309	37	D4
PE9169	48	C4	PE9316	32	B7	PE9467	28	E2	PE9607	40	C7	PE9754	25	D2	PE9858B/SF-10	360	38	PE91115	18	A4	PE91310	37	E4
PE9171	26	E2	PE9317	31	A7	PE9468	28	A3	PE9608	46	D1	PE9755	25	A2	PE9859B-10	361	4	PE91117	23	E5	PE91311	37	A5
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PE31464	23	B1	PEW137SP7	389	66	PEWAN1043	362	44	PEWCA1009	366	91	PEWCP1019	372	48	PEWCT1062	375	74	PEWGS8019	378	72	PEWSP1009	385	60
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PE31466	22	B7	PEW159SP7	389	68	PEWAN1045	362	38	PEWCA1011	367	28	PEWCP1021	372	47	PEWCT1064	375	71	PEWGS8021	378	85	PEWSP1011	385	68
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PE31470	24	C5	PEW15SP4	388	18	PEWAN1049	362	30	PEWCA1015	367	46	PEWCP1025	372	54	PEWCT1068	375	75	PEWGS8025	378	89	PEWTR1002	385	6
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PE31473	24	B6	PEW187SP7	389	70	PEWAN1052	362	33	PEWCA1018	367	47	PEWCP1028	372	55	PEWCT1071	375	87	PEWGS8028	378	95	PEWTR1005	386	20
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PE31480	23	A2	PEW22B10	369	43	PEWAN1059	362	28	PEWCA1025	366	97	PEWCP1035	372	62	PEWCT1078	375	85	PEWGS8035	378	93	PEWTR10100	387	69
PE31481	23	D3	PEW22CA10	369	44	PEWAN1060	362	29	PEWCA1026	366	48	PEWCP1036	372	63	PEWCT1079	375	89	PEWGS8036	378	75	PEWTR10011	387	70
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PE31483	23	E2	PEW22FS3	388	21	PEWAN1062	362	23	PEWCA1028	366	65	PEWCP1038	372	65	PEWCT1081	375	82	PEWGS8038	378	74	PEWTR1003	387	68
PE31484	23	B3	PEW22S010-3	384	17	PEWAN1063	362	24	PEWCA1029	366	76	PEWCP1039	372	66	PEWCT1082	375	86	PEWGS8039	378	76	PEWTR1004	387	65
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PE31492	34	E4	PEW22T0001	387	86	PEWAN1065	362	18	PEWCA1031	366	85	PEWCP1041	372	68	PEWCT1084	375	91	PEWGS8041	377	49	PEWTR1006	387	64
PE31493	34	E4	PEW24FS3	389	71	PEWAN1066	362	19	PEWCA1032	366	97	PEWCP1042	372	69	PEWCT1085	375	95	PEWGS8042	377	51	PEWTR1007	387	63
PE31494	35	A1	PEW28SP8	388	72	PEWAN1067	362	20	PEWCA1033	366	87	PEWCP1043	372	70	PEWCT1086	375	99	PEWGS8043	377	48	PEWTR1008	386	62
PE31495	35	B1	PEW28CP10-20	372	25	PEWAN1068	362	21	PEWCA1034	366	92	PEWCP1044	373	71	PEWCT1087	375	4	PEWGS8044	379	20	PEWTR1010	386	61
PE31496	34	B2	PEW28FS3	388	25	PEWAN1069	362	58	PEWCA1035	366	89	PEWCP1045	373	72	PEWCT1088	375	92	PEWGS8045	379	22	RG108A/U	230	30
PE31497	34	C2	PEW28S010-3	384	22	PEWAN1070	362	59	PEWCA1036	366	93	PEWCP1046	373	73	PEWCT1089	375	96	PEWGS8046	379	19	RG11A/U	226	10
PE31498	19	B1	PEW28S10-6	384	23	PEWAN1071	362	56	PEWCA1037	366	11	PEWCP1047	373	74	PEWCT1090	375	1	PEWGS8047	379	21	RG141A/U	227	55
PE31499	20	E2	PEW28T0001	388	26	PEWAN1072	362	57	PEWCA1038	366	13	PEWCP1048	373	75	PEWCT1091	375	5	PEWGS8048	379	24	RG142B/U	226	63
PE31500	20	B3	PEW28ST1000	383	23	PEWAN1073	362	54	PEWCA1039	367	14	PEWCP1049	373	76	PEWCT1092	375	93	PEWGS8049	379	26	RG174A/U	225	57
PE31503	20	A1	PEW340FS10	389	73	PEWAN1074	362	55	PEWCA1040	367	30	PEWCP1050	373	77	PEWCT1093	375	97	PEWGS8050	379	23	RG178B/U	228	58
PE31504	34	E6	PEW340SP10	389	74	PEWAN1075	362	70	PEWCA1041	367	29	PEWCP1051	373	79	PEWCT1094	375	2	PEWGS8051	379	25	RG179B/U	226	11
PE31505	43	C2	PEW34FS4	388	27	PEWAN1076	362	72	PEWCA1042	367	24	PEWCP1052A	373	80	PEWCT1095	375	6	PEWGS8052	378	99	RG180B/U	226	59
PE31506	33	B1	PEW34SP4	388	28	PEWAN1077	362	71	PEWCA1043	367	23	PEWCP1053	373	81	PEWCT1096	375	94	PEWGS8053	378	18	RG181A/U	226	12
PE31507	19	A3	PEW34B10	370	47	PEWAN1078	362	68	PEWCA1044	367	25	PEWCP1054	373	82	PEWCT1097	375	98	PEWGS8054	378	20	RG188A/U	226	60
PE31508	19	A3	PEW34B10	370	48	PEWAN1079	362	66	PEWCA1045	367	25	PEWCP1055	373	82	PEWCT1098	375	103	PEWGS8055	378	15	RG188-DS	226	61
PE31510	20	B1	PEW42FS4	388	29	PEWAN1080	362	68	PEWCA1046	367	50	PEWCP1056	373	84	PEWCT1099	375	7	PEWGS8056	377	38	RG198A/U	226	62
PE31511	18	E4	PEW42SP4	388	30	PEWAN1081	362	67	PEWCA1047	367	49	PEWCP1057	373	86	PEWCT1100	375	8	PEWGS8057	377	39	RG213A/U	226	63
PE31512	18	C6	PEW430FS10	389	75	PEWAN1082	362	69	PEWCA1048	367	42	PEWCP1058	373	88	PEWCT1101	376	12	PEWGS8058	377	40	RG214U	226	64
PE31513	18	E6	PEW430SP10	389	76	PEWAN1083	362	60	PEWCA1049	367	41	PEWCP1059	373	83	PEWCT1102	376	16	PEWGS8059	377	41	RG217U	226	65
PE31514	20	D7	PEW5000T1	369	27	PEWAN1084	362	62	PEWCA1050	367	43	PEWCP1060	373	87	PEWCT1103	376	20	PEWGS8060	377	62	RG218U	226	66
PE31515	19	D3	PEW510000	387	4	PEWAN1085	362	63	PEWCA1051	367	43	PEWCP1061	373	89	PEWCT1104	376	24	PEWGS8061	377	66	RG223U	226	67
PE31516	19	D7	PEW51T0000	387	4	PEWAN1086	362	63	PEWCA1052	367	55	PEWCP1062	373	89	PEWCT1105	376	13	PEWGS8062	378	62	RG225U	226	68
PE31517	20	D1	PEW51T00001	387	5	PEWAN1087	362	79	PEWCA1053	367	54	PEWCP1063	373	90	PEWCT1106	376	17	PEWGS8063	378	68	RG302U	226	13
PE31518	18	D4	PEW51T0002	387	6	PEWAN1088	362	77	PEWCA1054	367	57	PEWCP1064	373	92	PEWCT1107	376	21	PEWGS8064	377	63	RG303U	226	14
PE31519	18	B5	PEW52FS5	388	37	PEWAN1089	362	76	PEWCA1055	367	56	PEWCP1065	373	94	PEWCT1108	376	10	PEWGS8065	377	65	RG316-DS	226	71
PE31520	20	B7	PEW52SP5	388	38	PEWAN1090	362	64	PEWCA1056	367	69	PEWCP1066	373	96	PEWCT1109	376	14	PEWGS8066	377	67	RG316-DS	226	71
PE31521	20	B7	PEW52SP5	388	39	PEWAN1091	362	64	PEWCA1057	367	69	PEWCP1067	373	96	PEWCT1110	376	18	PEWGS8067	377	68	RG335U	226	72
PE31522	20	C4	PEW600001	369	30	PEWAN1092	362	62	PEWCA1058	367	66	PEWCP1068	373	93	PEWCT1111	376	22	PEWGS8068	378	78	RG400U	226	73
PE31523	21	A4	PEW61T0000	387	1	PEWAN1100	364	13	PEWCA1059	367	68	PEWCP1069	373	95	PEWCT1112	376	11	PEWGS8069	378	79	RG401U	226	73
PE31524	19	B5	PEW61T00001	387	2	PEWAN1101	364	11	PEWCA1060	367	73	PEWCP1070	373	97	PEWCT1113	376	15	PEWGS8070	378	80	RG402U	226	15
PE31526	19	E4	PEW61T0002	387	3	PEWAN1112	364	12	PEWCA1061	367	75	PEWCP1071	373	98	PEWCT1114	376	19	PEWGS8071	378	81	RG402U-STRAIGHT	230	16
PE31528	21	D4	PEW75FS5	388	41	PEWAN1113	364	9	PEWCA1062	367	82	PEWCP1072	373	1	PEWCT1115	376	23	PEWTR1000	381	40	RG465U	230	17
PE31529	20	D3	PEW75SP5	388	42	PEWAN1114	364	8	PEWCA1063	367	82	PEWCP1073	373	11	PEWCT1								

50-OHM CONVERSION TABLE

(dBm - volts- watts)

dBm	V	Po
+53	100.0	200W
+50	70.7	100W
+49	64.0	80W
+48	58.0	64W
+47	50.0	50W
+46	44.5	40W
+45	40.0	32W
+44	32.5	25W
+43	32.0	20W
+42	28.0	16W
+41	26.2	12.5W
+40	22.5	10W
+39	20.0	8W
+38	18.0	6.4W
+37	16.0	5W
+36	14.1	4W
+35	12.5	3.2W
+34	11.5	2.5W
+33	10.0	2W
+32	9.0	1.6W
+31	8.0	1.25W
+30	7.10	1.0W
+29	6.40	800 mW
+28	5.80	640 mW
+27	5.00	500 mW
+26	4.45	400 mW
+25	4.00	320 mW
+24	3.55	250 mW
+23	3.20	200 mW
+22	2.80	160 mW
+21	2.52	125 mW
+20	2.25	100 mW
+19	2.00	80 mW
+18	1.80	64 mW
+17	1.60	50 mW
+16	1.41	40 mW
+15	1.25	32 mW
+14	1.15	25 mW
+13	1.00	20 mW
+12	0.90	16 mW
+11	0.80	12.5 mW
+10	0.71	10 mW
+9	0.64	8 mW
+8	0.58	6.4 mW
+7	0.50	5 mW
+6	0.45	4 mW
+5	0.40	3.2 mW
+4	0.36	2.5 mW
+3	0.32	2.0 mW

dBm	V	Po
+2	0.28	1.6 mW
+1	0.25	1.25 mW
0	0.23	1.0 mW
-1	0.20	.80 mW
-2	0.18	.64 mW
-3	0.16	.50 mW
-4	0.14	.40 mW
-5	0.13	.32 mW
-6	0.12	.25 mW
-7	0.10	.20 mW
-8	0.09	.16 mW
-9	0.08	.125 mW
-10	0.07	.10 mW
-11	0.06	
-12	0.06	
-13	0.05	
-14	0.05	
-15	0.04	
-16	0.0355	
dBm	mV	Po
-17	31.5	
-18	28.5	
-19	25.1	
-20	22.5	.01 mW
-21	20.0	
-22	17.9	
-23	15.9	
-24	14.1	
-25	12.8	
-26	11.5	
-27	10.0	
-28	8.9	
-29	8.0	
-30	7.1	.001 mW
-31	6.25	
-32	5.8	
-33	5.0	
-34	4.5	
-35	4.0	
-36	3.5	
-37	3.2	
-38	2.85	
-39	2.5	
-40	2.25	.1 µW
-41	2.0	
-42	1.8	
-43	1.6	
-44	1.4	
-45	1.25	

dBm	mV	Po
-46	1.18	
-47	1.0	
-48	0.9	
-49	0.8	
-50	0.71	.01 µW
-51	0.64	
-52	0.57	
-53	0.5	
-54	0.45	
-55	0.4	
-56	0.351	
-57	0.32	
-58	0.286	
-59	0.251	
-60	0.225	.001 µW
-61	0.2	
-62	0.18	
-63	0.16	
-64	0.141	
dBm	µV	Po
-65	128	
-66	115	
-67	100	
-68	90	
-69	80	
-70	71	.1 nW
-71	65	
-72	58	
-73	50	
-74	45	
-75	40	
-76	35	
-77	32	
-78	29	
-79	25	
-80	22.5	.01 nW
-81	20	
-82	18	
-83	16	
-84	11.1	
-85	12.9	
-86	11.5	
-87	10.0	
-88	9.0	
-89	8.0	
-90	7.1	.001 nW
-91	6.1	
-92	5.75	
-93	5.0	

dBm	µV	Po
-94	4.5	
-95	4.0	
-96	3.51	
-97	3.2	
-98	2.9	
-99	2.51	
-100	2.25	.1 pW
-101	2.0	
-102	1.8	
-103	1.6	
-104	1.41	
-105	1.27	
-106	1.18	
dBm	nV	Po
-107	1000	
-108	900	
-109	800	
-110	710	.01 pW
-109	640	
-112	580	
-113	500	
-114	450	
-115	400	
-116	355	
-117	825	
-118	285	
-119	251	
-120	225	.001 pW
-121	200	
-122	180	
-123	160	
-124	141	
-125	128	
-126	117	
-127	100	
-128	90	
-129	80	
-130	71	.1 fW
-131	61	
-132	58	
-133	50	
-134	45	
-135	40	
-136	35	
-137	33	
-138	29	
-139	25	
-140	23	.01 fW



Technical Support
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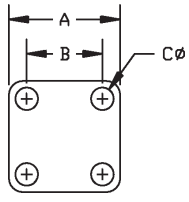


Same-Day Shipping,
Even Custom
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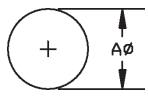
RETURN LOSS CONVERSION TABLE

Return Loss (dBm)	VSWR	Return Loss (dBm)	VSWR	Return Loss (dBm)	VSWR	Return Loss (dBm)	VSWR	Return Loss (dBm)	VSWR
46.064	1.01	13.842	1.51	9.485	2.01	7.327	2.51	5.999	3.01
40.086	1.02	13.708	1.52	9.428	2.02	7.294	2.52	5.970	3.02
36.607	1.03	13.577	1.53	9.372	2.03	7.262	2.53	5.956	3.03
34.151	1.04	13.449	1.54	9.317	2.04	7.230	2.54	5.935	3.04
32.256	1.05	13.324	1.55	9.262	2.05	7.198	2.55	5.914	3.05
30.714	1.06	13.201	1.56	9.208	2.06	7.167	2.56	5.893	3.06
29.417	1.07	13.081	1.57	9.155	2.07	7.135	2.57	5.872	3.07
28.299	1.08	12.964	1.58	9.103	2.08	7.105	2.58	5.852	3.08
27.318	1.09	12.849	1.59	9.051	2.09	7.074	2.59	5.832	3.09
26.444	1.10	12.736	1.60	8.999	2.10	7.044	2.60	5.811	3.10
25.658	1.11	12.625	1.61	8.949	2.11	7.014	2.61	5.791	3.11
24.943	1.12	12.518	1.62	8.899	2.12	6.984	2.62	5.771	3.12
24.289	1.13	12.412	1.63	8.849	2.13	6.954	2.63	5.751	3.13
23.686	1.14	12.308	1.64	8.800	2.14	6.925	2.64	5.732	3.14
23.127	1.15	12.207	1.65	8.752	2.15	6.896	2.65	5.712	3.15
22.607	1.16	12.107	1.66	8.705	2.16	6.867	2.66	5.693	3.16
22.120	1.17	12.009	1.67	8.657	2.17	6.839	2.67	5.674	3.17
21.664	1.18	11.913	1.68	8.611	2.18	6.811	2.68	5.654	3.18
21.234	1.19	11.818	1.69	8.565	2.19	6.783	2.69	5.635	3.19
20.828	1.20	11.725	1.70	8.519	2.20	6.755	2.70	5.617	3.20
20.443	1.21	11.634	1.71	8.474	2.21	6.728	2.71	5.598	3.21
20.079	1.22	11.545	1.72	8.430	2.22	6.700	2.72	5.579	3.22
19.732	1.23	11.457	1.73	8.386	2.23	6.673	2.73	5.561	3.23
19.401	1.24	11.370	1.74	8.342	2.24	6.646	2.74	5.542	3.24
19.085	1.25	11.285	1.75	8.299	2.25	6.620	2.75	5.524	3.25
18.783	1.26	11.202	1.76	8.257	2.26	6.594	2.76	5.506	3.26
18.493	1.27	11.120	1.77	8.215	2.27	6.567	2.77	5.488	3.27
18.216	1.28	11.039	1.78	8.173	2.28	6.541	2.78	5.470	3.28
17.949	1.29	10.960	1.79	8.138	2.29	6.516	2.79	5.452	3.29
17.690	1.30	10.881	1.80	8.091	2.30	6.490	2.80	5.435	3.30
17.445	1.31	10.804	1.81	8.051	2.31	6.465	2.81	5.417	3.31
17.207	1.32	10.729	1.82	8.011	2.32	6.440	2.82	5.400	3.32
16.977	1.33	10.654	1.83	7.972	2.33	6.415	2.83	5.383	3.33
16.755	1.34	10.581	1.84	7.933	2.34	6.390	2.84	5.365	3.34
16.540	1.35	10.509	1.85	7.894	2.35	6.366	2.85	5.348	3.35
16.332	1.36	10.437	1.86	7.856	2.36	6.341	2.86	5.331	3.36
16.131	1.37	10.367	1.87	7.818	2.37	6.317	2.87	5.315	3.37
15.936	1.38	10.298	1.88	7.781	2.38	6.293	2.88	5.298	3.38
15.747	1.39	10.230	1.89	7.744	2.39	6.270	2.89	5.281	3.39
15.563	1.40	10.163	1.90	7.707	2.40	6.246	2.90	5.265	3.40
15.385	1.41	10.097	1.91	7.671	2.41	6.223	2.91	5.248	3.41
15.211	1.42	10.032	1.92	7.635	2.42	6.200	2.92	5.232	3.42
15.043	1.43	9.968	1.93	7.599	2.43	6.177	2.93	5.216	3.43
14.879	1.44	9.904	1.94	7.564	2.44	6.154	2.94	5.200	3.44
14.719	1.45	9.842	1.95	7.529	2.45	6.131	2.95	5.184	3.45
14.564	1.46	9.780	1.96	7.494	2.46	6.109	2.96	5.168	3.46
14.412	1.47	9.720	1.97	7.460	2.47	6.086	2.97	5.152	3.47
14.264	1.48	9.660	1.98	7.426	2.48	6.064	2.98	5.137	3.48
14.120	1.49	9.601	1.99	7.393	2.49	6.042	2.99	5.121	3.49
13.979	1.50	9.542	2.00	7.360	2.50	6.021	3.00	5.105	3.50

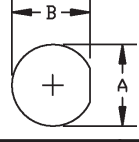
MOUNTING HOLES



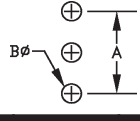
CODE	A	B	C
A01	.500	.340	.102
A02	.687	.500	.109
A03	.687	.500	#3-56 TAP
A04	.687	.500	.125
A05	1.000	.718	.125
A06	.750	.531	.140
A07	.750	.531	.125
A08	1.190	.906	.125
A09	.687	.500	#4-40 TAP
A10	.687	.500	.136
A11	1.250	.975	.147
A12	2.000	1.440	.257
A13	1.000	.718	.141
A14	1.000	.718	.144
A15	.687	.500	.104
A16	.750	.531	.136
A17	.375	.232	.067
A18	.625	.437	.094
A19	1.000	.718	#6-32 TAP
A20	.500	.340	#2-56 TAP
A21	1.250	.975	.142
A22	.375	.232	.093



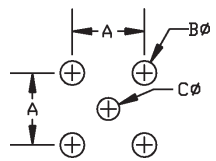
CODE	A
F01	.250
F02	.500
F03	.630
F04	1.200
F05	.380
F06	.450
F07	.200
F08	.362
F09	.220
F10	.317
F11	4.83mm
F12	.390



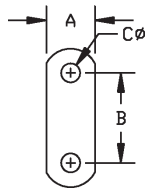
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B01	.195	.177
B02	.250	.235
B03	.330	.295
B04	.380	.350
B05	.440	.410
B06	.512	.480
B07	.760	.720
B08	.565	.537
B09	.314	.296
B10	.140	.126
B11	.695	.655
B12	.625	.575
B13	.405	.361
B14	.277	.252
B15	.630	.596
B16	.317	.285
B17	.284	.268



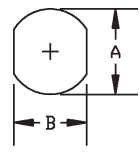
CODE	A	B
J01	.200	.046



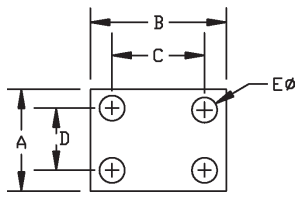
CODE	A	B	C
D01	.200	.067	.062
D02	.200	.067	.046
D03	.100	.031	.031
D04	.200	.052	.052
D05	.260	.067	.043
D06	.200	.052	.047
D07	.200	.055	.043
D08	.200	.067	.035
D09	.200	.055	.028
D10	.200	.055	.035
D11	.320	.091	.031
D12	.400	.062	.062
D13	.320	.091	.091
D14	.340	.091	.043
D15	.164	.067	.091
D16	.500	.126	.440
D17	.380	.083	.043



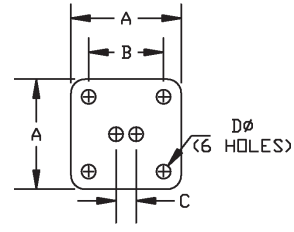
CODE	A	B	C
C01	.223	.481	.102
C02	.260	.481	.102
C03	.192	.328	.067
C04	.640	1.000	.125
C05	.275	.481	.102
C06	.230	.354	.067
C07	.188	.328	.093



CODE	A	B
G01	.640	.546
G02	.380	.340
G03	.765	.712
G04	.362	.323
G05	.236	.197
G06	.217	.177
G07	.380	.310
G08	1.161	1.000



CODE	A	B	C	D	E
E01	.375	.500	.340	.222	.093



CODE	A	B	C	D
H01	.687	.500	.125	.045

CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

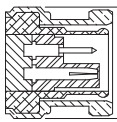
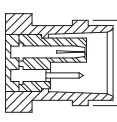
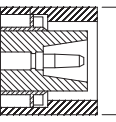
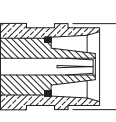
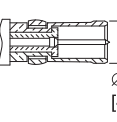
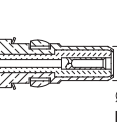
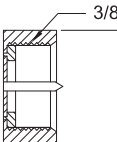
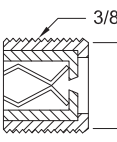
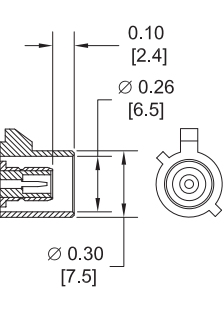
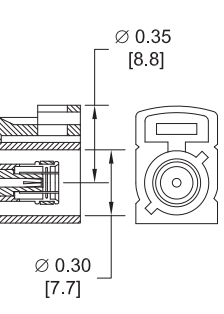
















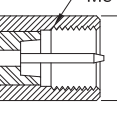
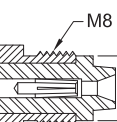
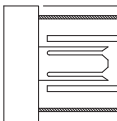

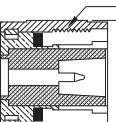
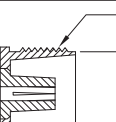
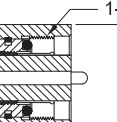
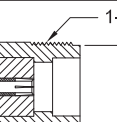
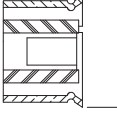
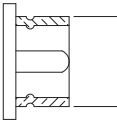
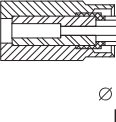

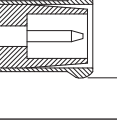
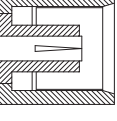
1.0/2.3 SLIDE ON	PLUG	
	JACK	
1.85 mm**	MALE	
	FEMALE	
2.4 mm**	MALE	
	FEMALE	
2.92 mm*	MALE	
	FEMALE	
3.5 mm*	MALE	
	FEMALE	
7 mm	PLUG	
	JACK	
10 - 32	MALE	
	FEMALE	
1.6/5.6	PLUG	
	JACK	
3/4-20 TWINAX	MALE	
	FEMALE	
BANANA	PLUG	
	JACK	
BNC	MALE	
	FEMALE	
REVERSE POLARITY BNC	MALE	
	FEMALE	
75 OHM BNC	MALE	
	FEMALE	

*SMA, 2.92mm, & 3.5mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

**1.85mm & 2.4mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

CONNECTOR IDENTIFIER

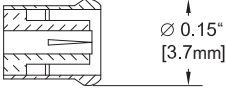
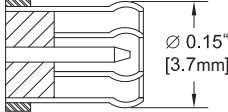
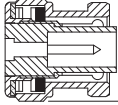
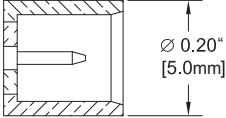
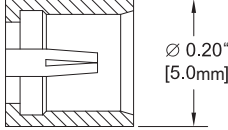

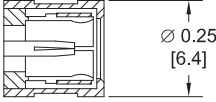
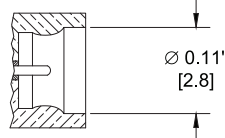
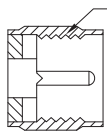
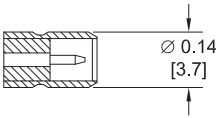
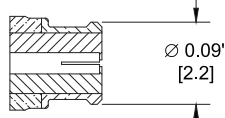
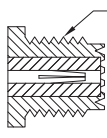
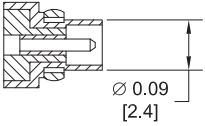
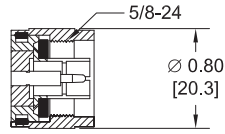
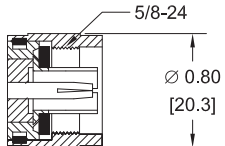
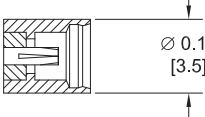
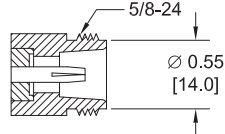
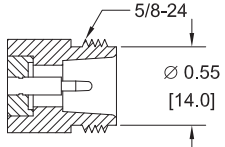
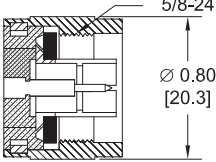
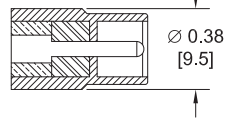
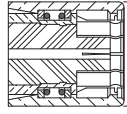
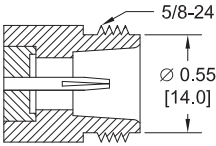
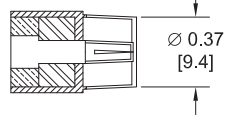
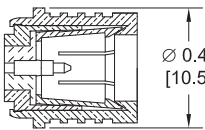
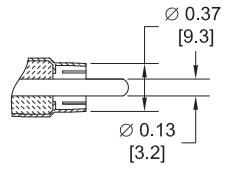
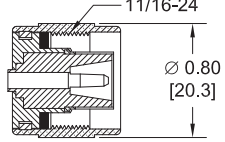
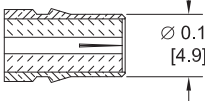
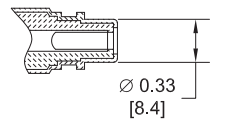
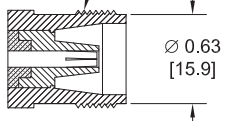
SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

BNC TWINAX	PLUG	 Ø 0.57" [14.5mm]				
	JACK	 Ø 0.44" [11.1mm]				
C	MALE	 Ø 0.75" [19.1mm]				
	FEMALE	 Ø 0.60" [15.2mm]				
D SUBMINIATURE	PLUG	 Ø 0.19" [4.8mm]				
	RECEPTACLE	 Ø 0.15" [3.9mm]				
F	MALE	 3/8-32 7/16 HEX				
	FEMALE	 3/8-32 Ø 0.34 [8.5]				
FAKRA	PLUG	 0.10 [2.4] Ø 0.26 [6.5] Ø 0.30 [7.5]				
	JACK	 Ø 0.35 [8.8] Ø 0.30 [7.7]				
FAKRA	COMPLETE KEY CODE INFO	CODE	JACK	PLUG	COLOR	APPLICATION
		A			BLACK	RADIO WITH PHANTOM SUPPLY
		B			WHITE	RADIO WITHOUT PHANTOM SUPPLY
		C			BLUE	GPS: TELEMATICS OR NAVIGATION
		D			BORDEAUX	GSM: CELLULAR PHONE
H			VIOLET	GPS: TELEMATICS AND NAVIGATION		
I			BEIGE	BLUETOOTH		
K			CURRY	RADIO WITH I.F. OUTPUT (ANTENNA DIVERSITY)		
Z			WATER BLUE	NEUTRAL CODING		
FME	PLUG	 M8 X P.75 Ø 0.37 [9.5]				
	JACK	 M8 X P.75 Ø 0.29 [7.3]				
GR874	PLUG	 Ø 0.81 [20.6]				
	JACK					
HN	MALE	 3/4-20 Ø 0.90 [22.9]				
	FEMALE	 3/4-20 Ø 0.67 [17.1]				
LC	MALE	 1-1/4-18 1-1/2 HEX				
	FEMALE	 1-1/4-18 Ø 1.17 [29.6]				
UMCX	PLUG	 Ø 0.10 [2.5]				
	JACK	 Ø 0.08 [2.0]				
MC-CARD	PLUG	 Ø 0.087 [2.2]				
	JACK	 Ø 0.20 [5.0]				
MCX	PLUG	 Ø 0.15 [3.7]				
	JACK	 Ø 0.20 [5.0]				



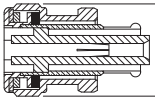
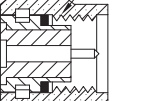
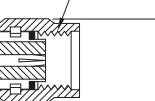
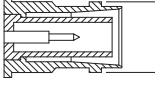
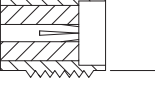
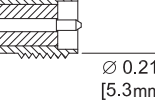
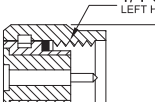
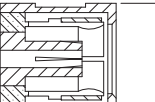
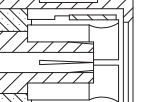
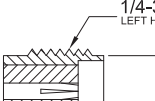
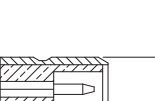
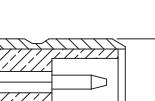
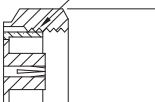
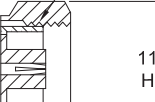
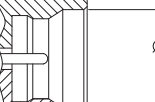
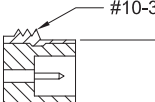
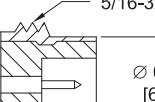
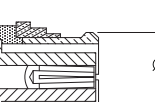
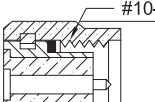
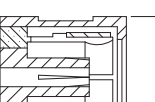
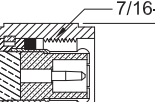
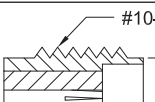
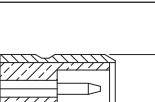
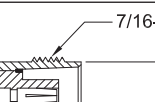
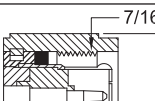
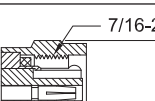
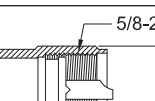
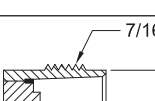
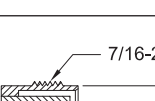
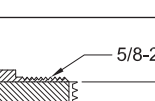
CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

REVERSE POLARITY MCX	PLUG	 Ø 0.15" [3.7mm]	75 OHM MCX	PLUG	 Ø 0.15" [3.7mm]	MHV	MALE	 Ø 0.57" [14.5mm]
	JACK	 Ø 0.20" [5.0mm]		JACK	 Ø 0.20" [5.0mm]		FEMALE	 Ø 0.44" [11.1mm]
MINI 75 OHM SMB	PLUG	 Ø 0.25 [6.4]	MINI SMP	MALE	 Ø 0.11" [2.8]	MINI-UHF	MALE	 3/8-24 Ø 0.45 [11.5]
	JACK	 Ø 0.14 [3.7]		FEMALE	 Ø 0.09" [2.2]		FEMALE	 3/8-24 Ø 0.31 [7.8]
MMCX	PLUG	 Ø 0.09 [2.4]	N	MALE	 5/8-24 Ø 0.80 [20.3]	REVERSE POLARITY N	MALE	 5/8-24 Ø 0.80 [20.3]
	JACK	 Ø 0.14 [3.5]		FEMALE	 5/8-24 Ø 0.55 [14.0]		FEMALE	 5/8-24 Ø 0.55 [14.0]
75 OHM N	MALE	 5/8-24 Ø 0.80 [20.3]	PAL	PLUG	 Ø 0.38 [9.5]	POSITIVE SNAP	 Ø 0.39 [9.9]	
	FEMALE	 5/8-24 Ø 0.55 [14.0]		JACK	 Ø 0.37 [9.4]			
QMA	MALE	 Ø 0.41 [10.5]	RCA	PLUG	 Ø 0.37 [9.3] Ø 0.13 [3.2]	SC	MALE	 11/16-24 Ø 0.80 [20.3]
	FEMALE	 Ø 0.19 [4.9]		JACK	 Ø 0.33 [8.4]		FEMALE	 11/16-24 Ø 0.63 [15.9]

CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

SHV	PLUG	 Ø 0.57" [14.5mm]	SMA*	MALE	 1/4-36 5/16 HEX	REVERSE POLARITY SMA	MALE	 1/4-36 5/16 HEX
	JACK	 Ø 0.44" [11.1mm]		FEMALE	 1/4-36 Ø 0.21 [5.3]		FEMALE	 1/4-36 Ø 0.21" [5.3mm]
SMA REVERSE THREAD	MALE	 1/4-36 LEFT HAND THREAD 5/16 HEX	SMB	PLUG	 Ø 0.25 [6.4]	75 OHM SMB	PLUG	 Ø 0.37 [9.2]
	FEMALE	 1/4-36 LEFT HAND THREAD Ø 0.21 [5.3]		JACK	 Ø 0.14 [3.7]		JACK	 Ø 0.24 [6.2]
SMC	PLUG	 #10-32 1/4 HEX	75 OHM SMC	PLUG	 5/16-32 11/32 HEX	SMP	MALE	 Ø 0.15" [3.7]
	JACK	 #10-32 Ø 0.14 [3.7]		JACK	 5/16-32 Ø 0.24 [6.2]		FEMALE	 Ø 0.13" [3.3]
SSMA	MALE	 #10-36 1/4 HEX	SSMB	PLUG	 Ø 0.18 [4.7]	TNC	MALE	 7/16-28 Ø 0.59 [15.0]
	FEMALE	 #10-36 Ø 0.16 [4.1]		JACK	 Ø 0.10 [2.6]		FEMALE	 7/16-28 Ø 0.38 [9.6]
75 OHM TNC	MALE	 7/16-28 Ø 0.59 [15.0]	REVERSE POLARITY TNC	MALE	 7/16-28 Ø 0.59 [15.0]	UHF	MALE	 5/8-24 Ø 0.70 [17.8]
	FEMALE	 7/16-28 Ø 0.38 [9.6]		FEMALE	 7/16-28 Ø 0.38 [9.6]		FEMALE	 5/8-24 Ø 0.55 [14.0]

*SMA, 2.92mm & 3.5mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

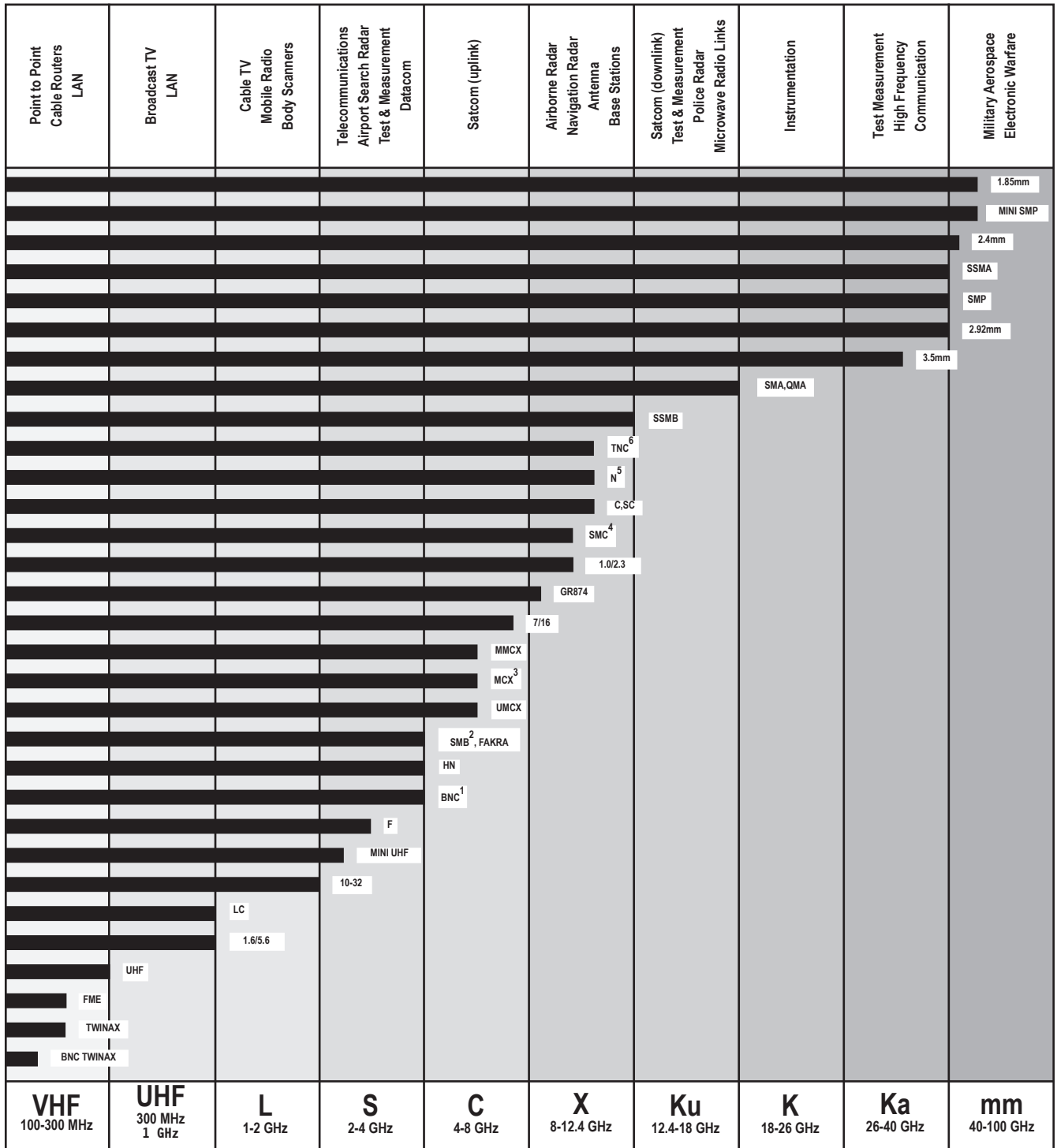


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CONNECTOR FREQUENCY RANGE CHART



Notes:

- 1: BNC-75 Ohm connectors operate up to 1 GHz
- 2: SMB-75 Ohm & Mini SMB-75 Ohm connectors operate up to 4 GHz
- 3: MCX-75 Ohm connectors operate up to 6 GHz
- 4: SMC-75 Ohm connectors operate up to 10 GHz
- 5: N-75 Ohm connectors operate up to 1.5 GHz
- 6: TNC-75 Ohm connectors operate up to 1 GHz



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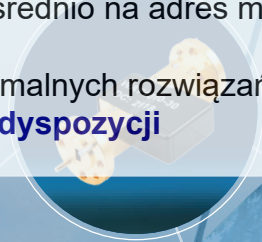
W niniejszym katalogu zamieszczone są linki do produktów na stronach producenta. Zachęcamy jednak do bezpośrednich zakupów przez Meratronik S.A. Poniżej szereg korzyści:

- Ekspresowe pozyskiwanie ofert
- Procedury celne po naszej stronie
- Odroczone termin płatności
- Ciągła dostępność ponad 40 000 elementów
- Obsługa gwarancyjna i pogwarancyjna realizowana przez Meratronik S.A.
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- Wyszukaj interesujące Cię urządzenia lub akcesoria na stronie producenta lub w katalogu
- Skontaktuj się z nami przez zakładkę **"zapytaj o produkt"** znajdującą się na www.meratronik.pl przy każdej kategorii produktowej lub pisząc bezpośrednio na adres mailowy jm@meratronik.pl
- Chcesz zlecić nam dobór optymalnych rozwiązań?

Jesteśmy do Twojej dyspozycji



2022
RF Product Guide