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Jesteśmy do Twojej dyspozycji

2022
RF Product Guide

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

Pasternack's wide selection of waveguide fixed attenuator products offers precision attenuation levels over the operating frequency ranges.

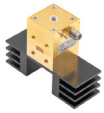
FLEXIBLE WAVEGUIDES....380

SEAMLESS....380 *TWISTABLE....380*

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.

WAVEGUIDE GUNN OSCILLATORS....381

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.



WAVEGUIDE ISOLATORS.... 381

Pasternack Enterprises offers a wide variety of waveguide isolators from WR-10 to WR-112.

WAVEGUIDE POWER AMPLIFIERS....383

Waveguide Power Amplifiers consist of 2 models that cover 70.5 GHz to 86.5 GHz (E Band) and support WR-12 waveguide ports.

WG LOW NOISE AMPLIFIERS....382

Pasternack WG Low Noise Amplifiers are ruggedly built 50 ohm designs and unconditionally stable with impressive performance across freq. bands.

WAVEGUIDE SECTIONS.... 383

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.

WAVEGUIDE MAGIC TEES.... 382

Pasternack's magic, or hybrid tees are 4 port device that is internally tuned to optimize matching, balance, and isolation.

WAVEGUIDE TERMINATIONS....385

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.

WG ORTHOMODE TRANSDUCERS....382

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.

WAVEGUIDE TRANSITIONS....386

Pasternack's family of Waveguide Transitions/Adapters are used as a means of propagating RF/ Microwave energy from one waveguide size to another.

WAVEGUIDE PHASE SHIFTERS....382

These waveguide variable phase shifters are built using low loss dielectric material, which offers minimum insertion loss..

WAVEGUIDE TWISTS....387

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.

WAVEGUIDE PIN DIODE SWITCHES....383

Waveguide PIN Diode Switches consist of 4 models that cover 60 GHz to 110 GHz, in both SPST and SPDT configurations.

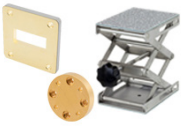
WAVEGUIDE VARIABLE ATTEN.... 388

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.

WAVEGUIDE POLARIZERS....383

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.

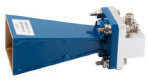
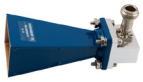
WAVEGUIDE ACCESSORIES....388



Pasternack Enterprises offers a variety of waveguide accessories from WR-10 to WR-430.

WAVEGUIDE ANTENNAS

Waveguide Antennas With Coax Adapters

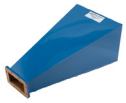
Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-28	26.5 - 40	10	WR-28 - 2.92mm Female	EAR99	PE9850B/2F-10	$1,804.73	$1,732.54	$1,660.35	$1,588.16	1
		15		EAR99	PE9850B/2F-15	$1,874.15	$1,799.18	$1,724.22	$1,649.25	2
		20		EAR99	PE9850B/2F-20	$1,993.16	$1,913.43	$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	
		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	
		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	
		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	
		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	
		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	

Standard 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-Mod	EAR99	PEWAN1029	$2,217.19		See Web for Volume Pricing		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		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	Round Cover UG-387/U	EAR99	PEWAN1016	$1,842.19				65
WR-15	50 - 75	10	Round Cover UG-385/U-Mod	EAR99	PEWAN1009	$1,295.68				66
		15		EAR99	PEWAN1010	$1,374.55				67
		20		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				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		EAR99	PE9855B-10	$954.95				90
		15		EAR99	PE9855B-15	$1,012.25				91
		20		EAR99	PE9855B-20	$1,021.25				92
WR-90	8.2 - 12.4	10	Square Cover UG-135/U	EAR99	PE9856B-10	$916.39				93
		15		EAR99	PE9856B-15	$1,065.35				94
		20		EAR99	PE9856B-20	$1,116.61				95
WR-102	7 - 11	10	Square Cover UG-1493/U	EAR99	PE9857B-10	$903.79				96
		15	Square Cover	EAR99	PE9857B-15	$908.42				97
		20	Square Cover UG-1493/U	EAR99	PE9857B-20	$963.20				98
WR-112	7.05 - 10	10	Square Cover	EAR99	PE9858B-10	$994.16				99
		15	Square Cover UG-138/U	EAR99	PE9858B-15	$1,069.21				1
		20	Square Cover	EAR99	PE9858B-20	$1,144.88				2
WR-137	58.5 - 82	20	CMR-137F	EAR99	PE9859B-20	$1,075.00				3
	5.85 - 8.2	10	CMR-137	EAR99	PE9859B-10	$929.13				4
		15		EAR99	PE9859B-15	$989.77				5
WR-159	49 - 70.5	20	CMR-159	EAR99	PE9860B-20	Call				6

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

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
WR-229	33 - 49	20	CMR-229	EAR99	PE9862B-20	$1,705.40	$1,620.13	$1,534.86	$1,466.64	10
	3.3 - 4.9	15		EAR99	PE9862B-15	$1,359.99	$1,291.99	$1,223.99	$1,169.59	11
WR-284	26 - 39.5	15	CMR-284	EAR99	PE9863B-15	$1,827.50	$1,736.13	$1,644.75	$1,571.65	12
		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		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		10		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
	77 - 87	10		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-12		10		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
	68 - 77	10		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

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
	88 - 100	40	Round Cover UG-387/U-Mod	EAR99	PEWAN1101	$10,054.62		64
		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
	89 - 99	2	Round Cover UG-387/U	EAR99	PEWAN1089	$7,446.71	$7,186.08	$6,925.44	$6,702.04	76
WR-12	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		EAR99	PEWAN1121	$20,290.63	$19,580.46	$18,870.29	$18,261.57	95
		15	Square Cover UG-387/U-Mod	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
	68 - 77	17	UG-387/U-Mod	EAR99	PEWAN1120	$4,837.50	$4,668.19	$4,498.88	$4,353.75	98
WR-12	60 - 90	13	UG-387/U	EAR99	PEWAN1119	$19,753.13	$19,061.77	$18,370.41	$17,777.82	99
		15	Square Cover UG-387/U	EAR99	PEWAN1138	$8,734.38	$8,428.68	$8,122.97	$7,860.94	1
	58 - 68	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
WR-28	26 - 30	17		EAR99	PEWAN1113	$4,300.00	$4,149.50	$3,999.00	$3,870.00	9
	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
	24 - 42	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			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
	56.5 - 67			5A991	PE9881-34	$1,694.40	$1,635.10	$1,575.79	$1,524.96	19

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	See Web for Volume Pricing	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		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
			1.4:1		2.4mm Female	EAR99	PEW22CA100	$1,691.47		30
		0.5	1.6:1	UG383/U	2.4mm Female	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		32
				UBR320	2.92mm Female	EAR99	PEWCA1103	$1,019.07		33
		0.4			2.92mm Female	EAR99	PEWCA1104	$847.96		34
		0.35	1.29:1	Square Cover UG-599/U	2.92mm Male	EAR99	PE-W28CA002	$838.20		35
			1.3:1		2.92mm Female	EAR99	PEWCA1000	$926.26		36
		0.3			2.92mm Female	EAR99	PEWCA1020	$777.69		37
		0.5		UBR320	2.92mm Female	EAR99	PEWCA1109	$1,102.74		38
			1.4:1	Square Cover	2.92mm Female	EAR99	PE9826	$518.00		39
WR-34	21.7-33	0.3	1.35:1	UBR260	2.92mm Female	EAR99	PEWCA1102	$1,019.07		40
	22-33		1.25:1	Square Cover UG-1530/U	2.92mm Female	EAR99	PEWCA1001	$765.94		41
		0.3			2.92mm Female	EAR99	PEWCA1021	$706.46		42
			1.4:1	Square Cover	2.92mm Female	EAR99	PE9827	$912.43		43
WR-42	17.6-26.7	0.3	1.25:1	UBR220	2.92mm Female	EAR99	PEWCA1101	$1,019.07		44
		0.5			SMA Female	EAR99	PEWCA1100	$418.28		45
	18-26.5		1.03:1	Square Cover UG-597/U	SMA Female	EAR99	PEWCA1026	$711.31		46
			1.25:1	Square Cover UG-595/U	SMA Female	EAR99	PEWCA1018	$801.97		47
		0.75		Square Cover UG-597/U	2.92mm Female	EAR99	PEWCA1019	$564.90		48
		0.3	1.29:1		2.92mm Female	EAR99	PE-W42CA001	$824.67		49
					2.92mm Male	EAR99	PE-W42CA002	$812.50		50
			1.3:1		2.92mm Female	EAR99	PEWCA1070	$944.03		51
		0.3			SMA Female	EAR99	PEWCA1022	$616.04		52
			1.4:1	Square Cover	2.92mm Female	EAR99	PE9878	$618.80		53
				Square Cover UG-597/U	2.92mm Male	EAR99	PE9813A	$660.15		54
				Square Type	2.92mm Female	EAR99	PE9812	$459.34		55
WR-51	14.5-22	0.3	1.25:1	UBR180	SMA Female	EAR99	PEWCA1099	$479.13		56
	15-22			Square Cover	SMA Female	EAR99	PEWCA1002A	$570.71		57
					SMA Female	EAR99	PEWCA1027	$795.98		58
			1.3:1	Square Type	SMA Female	EAR99	PE9828	$610.62		59
					SMA Female	EAR99	PE9879	$819.05		60
WR-62	11.9-18	0.2	1.25:1	UBR140	N Female	EAR99	PEWCA1097	$418.28		61

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-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		1.2:1	Square Cover UG-1665/U	SMA Male	EAR99	PE9809	$303.48				64
			1.25:1		N Female	EAR99	PEWCA1028	$702.17				65
		0.3			SMA Female	EAR99	PEWCA1023	$580.46				66
				Square Cover UG-419/U	SMA Female	EAR99	PEWCA1003	$538.33				67
			1.3:1	Square Cover UG-1665/U	N Female	EAR99	PEWCA1072	$917.73				68
					SMA Female	EAR99	PEWCA1071	$798.75				69
		0.3		Square Type	SMA Female	EAR99	PE9803	$381.14				70
			1.4:1	Square Cover	N Male	EAR99	PE9806	$669.56				71
				Square Type	N Female	EAR99	PE9866	$724.14				72
					N Female	EAR99	PE9875	$366.24				73
					SMA Female	EAR99	PE9846	$622.53				74
WR-75	10-15		1.25:1	Square Cover	N Female	EAR99	PEWCA1005	$720.90				75
					N Female	EAR99	PEWCA1029	$737.27				76
					SMA Female	EAR99	PEWCA1004	$658.63				77
		0.3			SMA Female	EAR99	PEWCA1024	$531.64				78
			1.3:1		N Female	EAR99	PEWCA1074	$886.14				79
					SMA Female	EAR99	PEWCA1073	$797.69				80
				Square Type	N Female	EAR99	PE9874	$466.93				81
					SMA Female	EAR99	PE9819	$368.09				82
			1.4:1		N Female	EAR99	PE9867	$734.06				83
					SMA Female	EAR99	PE9847	$677.32				84
	9.84-15	0.2	1.25:1	UBR120	N Female	EAR99	PEWCA1095	$418.28				85
					SMA Female	EAR99	PEWCA1096	$418.28				86
WR-90	8.2-12.4			CMR-90	N Female	EAR99	PEWCA1033	$830.13				87
					SMA Female	EAR99	PEWCA1032	$830.13				88
				CPR-90G	N Male	EAR99	PEWCA1035	$691.19				89
					N Female	EAR99	PEWCA1036	$748.99				90
					N Female	EAR99	PEWCA1009	$608.55				91
					SMA Female	EAR99	PEWCA1034	$690.83				92
					SMA Female	EAR99	PEWCA1007	$565.64				93
		0.25		Square Cover UG-135/U	N Female	EAR99	PE9868	$831.26				94
					N Female	EAR99	PEWCA1031	$838.86				95
					SMA Female	EAR99	PEWCA1075	$820.45				96
		0.3			SMA Female	EAR99	PEWCA1025	$538.33				97
					SMA Male	EAR99	PEWCA1030	$718.46				98
				Square Cover UG-39/U	N Female	EAR99	PEWCA1008	$702.85				99
					SMA Female	EAR99	PEWCA1006	$678.76				1
		0.2		UBR100	N Female	EAR99	PEWCA1092	$418.28				2
					SMA Female	EAR99	PEWCA1093	$418.28				3
					SMA Female	EAR99	PEWCA1107	$471.51				4
			1.3:1	CPR-90G	N Female	EAR99	PE9873	$486.75				5
				Square Type	N Female	EAR99	PE9801	$410.10				6
					N Male	EAR99	PE9889	$477.87				7
		0.3			SMA Female	EAR99	PE9804	$364.97				8
					SMA Male	EAR99	PE9810	$464.32				9
			1.4:1		SMA Female	EAR99	PE9848	$599.47				10
WR-102	7-10		1.25:1	Square Cover UG-1493/U	SMA Female	EAR99	PEWCA1037	$773.91				11
	7-11			Square Cover	N Female	EAR99	PE9869	$476.91				12
				Square Cover UG-1493/U	N Female	EAR99	PEWCA1038	$830.70				13
					N Male	EAR99	PEWCA1039	$830.70				14
					SMA Female	EAR99	PE9805	$666.38				15
			1.3:1	Square Cover	SMA Male	EAR99	PE9811	$352.21				16
				Square Type	N Female	EAR99	PE9802	$497.48				17
					N Male	EAR99	PE9890	$485.36				18
			1.4:1		SMA Female	EAR99	PE9871	$463.88				19
WR-112	6.57-9.99	0.2	1.25:1	UBR84	N Female	EAR99	PEWCA1089	$425.89				20
					SMA Female	EAR99	PEWCA1090	$419.08				21
					SMA Female	EAR99	PEWCA1106	$509.54				22

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
			1.3:1	CPR-112G	N Female	EAR99	PE9837	$639.79				33
				Square Type	N Female	EAR99	PE9820	$410.56				34
					N Female	EAR99	PE9870	$593.41				35
					SMA Female	EAR99	PE9884	$375.16				36
			1.4:1		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
				UDR70	N Female	EAR99	PEWCA1086	$438.30				39
					SMA Female	EAR99	PEWCA1088	$396.27				40
	5.85-8.2			CMR-137	N Female	EAR99	PEWCA1049	$732.13				41
					SMA Female	EAR99	PEWCA1048	$721.33				42
				CPR-137G	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
				Round Cover UG-344/U	N Female	EAR99	PEWCA1016	$753.67				47
					SMA Female	EAR99	PEWCA1014	$624.15				48
				Round Cover UG-441/U	N Female	EAR99	PEWCA1047	$764.58				49
					SMA Female	EAR99	PEWCA1046	$732.13				50
			1.3:1	CMR-137	N Female	EAR99	PE9876	$229.32				51
		0.4			SMA Female	EAR99	PE9830	$539.07				52
				CPR-137G	N 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
			1.3:1	CMR-159	N Female	EAR99	PE9821	$728.12				58
					SMA Female	EAR99	PE9831	$673.53				59
				CPR-159G	N Female	EAR99	PE9839	$818.08				60
	5.38-8.17	0.2	1.25:1	UDR58	SMA Female	EAR99	PEWCA1085	$480.32				61
WR-187	3.94-5.99			PDR48	N Female	EAR99	PEWCA1084	$527.16				62
				UDR48	N Female	EAR99	PEWCA1083	$492.33				63
					N Female	EAR99	PEWCA1105	$551.37				64
					SMA Female	EAR99	PEWCA1076	$435.57				65
	3.95-5.85			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
				Round Cover UG-407/U	N Female	EAR99	PEWCA1056	$709.99				69
			1.3:1	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
				CPR-229G	N Female	EAR99	PEWCA1062	$692.60				74
					SMA Female	EAR99	PEWCA1061	$706.22				75
			1.3:1	CMR-229	N Female	EAR99	PE9823	$629.15				76
					SMA Female	EAR99	PE9833	$715.35				77
				CPR-229G	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
				Round Cover UG-584/U	N Female	EAR99	PEWCA1063	$1,035.66				82

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
	2.2-3.3			CPR-340F	N Female	EAR99	PEWCA1066	$1,404.15				88
				CPR-340G	N Female	EAR99	PEWCA1067	$1,383.44				89
WR-430	1.7-2.6			CPR-430F	N Female	EAR99	PEWCA1068	$1,571.22				90
				CPR-430G	N Female	EAR99	PEWCA1069	$1,620.34				91
			1.3:1	CPR-430F	N Female	EAR99	PE9872	$1,405.01				92
					SMA Female	EAR99	PE9835	$1,512.25				93
				CPR-430G	N Female	EAR99	PE9843	$1,604.79				94
	1.72-2.61	0.2	1.25:1	UDR22	N Female	EAR99	PEWCA1079	$1,188.79				95
		0.3			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	0.5	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		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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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, ¼-20 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-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	Round Cover UG-387/U-Mod	EAR99	PE-W10B001	$525.93		33
			H-Bend		EAR99	PE-W10B002	$525.93		34
WR-12	60 - 90		E-Bend	Round Cover UG-387/U	EAR99	PE-W12B001	$443.11		35
			H-Bend		EAR99	PE-W12B002	$430.69		36
WR-15	50 - 75	0.17	E-Bend	Round Cover UG-385/U	EAR99	PE-W15B001	$583.98		37
			H-Bend		EAR99	PE-W15B002	$583.98		38
WR-19	40 - 60	0.18	E-Bend	Round Cover UG-383/U-Mod	EAR99	PE-W19B001	$420.58		39
			H-Bend		EAR99	PE-W19B002	$420.58		40
WR-22	33 - 50	0.16	E-Bend	Round Cover UG-383/U	EAR99	PE-W22B001	$420.58		41
		0.25	H-Bend		EAR99	PEW22B100	$398.85		42
			E-Bend		EAR99	PEW22B101	$398.85		43
WR-28	26.5 - 40	0.28		Square Cover UG-599/U	EAR99	PE-W28B001	$450.04		44
			H-Bend		EAR99	PE-W28B002	$560.44		45
		0.3	E-Bend		EAR99	PE-W28B003	$464.81		46

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

Waveguides

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-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	E-Bend		EAR99	PEW42B101	$443.40		48
WR-51	15 - 22	0.09		UBR180	EAR99	PE-W51B001	$409.60		49
WR-62	12.4 - 18			Square Cover UG-419/U	EAR99	PE-W62B003	$409.60		50
			H-Bend		EAR99	PE-W62B004	$438.27		51
		0.15	E-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		E-Bend	Square Cover UG-39/U	EAR99	PE-W90B001	$423.85		56
			H-Bend		EAR99	PE-W90B002	$433.35		57
			E-Bend	CPR-90G	EAR99	PE-W90B003A	$424.94		58
			H-Bend		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		E-Bend	Round Cover UG-344/U	EAR99	PE-W137B001	$443.90		62
			H-Bend		EAR99	PE-W137B002	$468.13		63
			E-Bend	CPR-137G	EAR99	PE-W137B003A	$548.21		64
			H-Bend		EAR99	PE-W137B004	$540.12		65
WRD-180	18 - 40	0.4	E-Bend	Square Cover UG	EAR99	PEWRD180B001	$742.28		66
			H-Bend		EAR99	PEWRD180B002	$742.28		67
WRD-650	6.5 - 18		E-Bend		EAR99	PEWRD650B001	$661.59		68
			H-Bend		EAR99	PEWRD650B002	$661.59		69
WRD-750	7.5 - 18		E-Bend		EAR99	PEWRD750B001	$661.59		70
			H-Bend		EAR99	PEWRD750B002	$661.59		71

WAVEGUIDE BULKHEAD ADAPTERS

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
33.0 - 50.0	WR-22	Round Cover UG-383/U	Round Cover UG-383/U	PEWAD5007A	$924.78		76
			Round Cover UG-383/U	PEWAD5004	$991.36		77
26.5 - 40.0	WR-28	Square Cover UG-599/U	Square Cover UG-599/U	PEWAD5008	$803.46		78
			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
18.0 - 26.5	WR-42	Square Cover UG-595/U	Square Cover UG-595/U	PEWAD5010	$841.02		81
			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
			1.1:1	20	40	Round Cover UG-387/U	EAR99	PEW10CP010-20	$2,653.00	$2,546.88	$2,440.76	$2,334.64	8
WR-12	60 - 90	1	1.2:1	20	30		EAR99	PE-W12CP001-20	$2,682.26	$2,574.97	$2,467.68	$2,360.39	9
				20	30		EAR99	PE-W12CP003-20	$2,714.84	$2,606.25	$2,497.65	$2,389.06	10
		1.4		10	30		EAR99	PE-W12CP001-10	$2,682.26	$2,574.97	$2,467.68	$2,360.39	11
				10	30		EAR99	PE-W12CP003-10	$2,823.43	$2,710.49	$2,597.56	$2,484.62	12
WR-15	50 - 75	1	1.1:1	20	40	Round Cover UG-385/U	EAR99	PEWCP1080-20	$2,515.43	$2,414.81	$2,314.20	$2,213.58	13
			1.2:1	20	30		EAR99	PE-W15CP001-20	$2,613.53	$2,508.99	$2,404.45	$2,299.91	14
		1.4		10	30		EAR99	PE-W15CP001-10	$2,528.32	$2,427.19	$2,326.05	$2,224.92	15
				10	30		EAR99	PE-W15CP003-10	$2,528.32	$2,427.19	$2,326.05	$2,224.92	16
WR-19	40 - 60	0.8		10	30	Round Cover UG-383/U	EAR99	PE-W19CP003-10	$2,642.30	$2,536.61	$2,430.92	$2,325.22	17
				20	30		EAR99	PE-W19CP003-20	$2,590.49	$2,486.87	$2,383.25	$2,279.63	18
		1		20	30		EAR99	PE-W19CP001-20	$2,333.65	$2,240.30	$2,146.96	$2,053.61	19
		1.4		10	30		EAR99	PE-W19CP001-10	$2,333.65	$2,240.30	$2,146.96	$2,053.61	20
WR-22	33 - 50	0.8	1.1:1	20	30		EAR99	PEW22CP010-20	$2,397.79	$2,301.88	$2,205.97	$2,110.06	21
			1.2:1	20	30		EAR99	PE-W22CP003-20	$2,629.47	$2,524.29	$2,419.11	$2,313.93	22
		1	1.05:1	10			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

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
			1.2:1	10	30		EAR99	PE-W28CP003-10	$2,543.25	$2,441.52	$2,339.79	$2,238.06	27
		1		10	30		EAR99	PE-W28CP002-10	$2,445.43	$2,347.61	$2,249.80	$2,151.98	28
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			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			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			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
				30	40	CPR-90G	EAR99	PEWCP1022	$1,568.96	$1,506.20	$1,443.44	$1,380.68	49
WR-112	7.05 - 10			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
				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
WR-137	5.85 - 8.2			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
				20	40	CPR-137G	EAR99	PEWCP1033	$1,553.29	$1,491.16	$1,429.03	$1,366.90	59
				30	40	Round Cover UG-344/U	EAR99	PEWCP1031	$1,501.01	$1,440.97	$1,380.93	$1,320.89	60
				30	40	CPR-137G	EAR99	PEWCP1034	$1,638.04	$1,572.52	$1,507.00	$1,441.48	61

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
				50	10		EAR99	PEWCP1038	$1,050.83	$998.29	$945.75	$903.71	65
WR-42	18 - 26.5			20	30	Square Cover UG-595/U	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 Asemblies 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	See Web for Volume Pricing			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			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			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			20	20	Square Cover UG-39/U	EAR99	PEWCP1055	$793.93				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			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			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			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 Asemblies 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		EAR99	PEWCT1009	$1,880.01	$1,804.81	$1,729.61	$1,654.41	16
				40	30		EAR99	PEWCT1010	$1,880.01	$1,804.81	$1,729.61	$1,654.41	17
				50	10		EAR99	PEWCT1011	$1,880.01	$1,804.81	$1,729.61	$1,654.41	18
WR-62	12.4 - 18			20	20	Square Cover UG-419/U	EAR99	PEWCT1012	$1,395.72	$1,339.89	$1,284.06	$1,228.23	19
				30	10		EAR99	PEWCT1013	$1,471.87	$1,413.00	$1,354.12	$1,295.25	20
				40	30		EAR99	PEWCT1014	$1,395.72	$1,339.89	$1,284.06	$1,228.23	21
				50	10		EAR99	PEWCT1015	$1,395.72	$1,339.89	$1,284.06	$1,228.23	22
WR-75	10 - 15			50	10	Square Cover	EAR99	PEWCT1019	$1,481.31	$1,422.06	$1,362.81	$1,303.55	23
				20	25		EAR99	PEWCT1016	$1,481.31	$1,422.06	$1,362.81	$1,303.55	24
				30	25		EAR99	PEWCT1017	$1,404.68	$1,348.49	$1,292.31	$1,236.12	25
				40	15		EAR99	PEWCT1018	$1,404.68	$1,348.49	$1,292.31	$1,236.12	26
WR-90	8.2 - 12.4			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			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			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		EAR99	PEWCT1045	$2,347.49	$2,253.59	$2,159.69	$2,065.79	52
				40	25		EAR99	PEWCT1046	$2,312.87	$2,220.36	$2,127.84	$2,035.33	53
				50	10		EAR99	PEWCT1047	$2,312.87	$2,220.36	$2,127.84	$2,035.33	54
WR-42	18 - 26.5			20	30	Square Cover UG-595/U	EAR99	PEWCT1048	$2,092.03	$2,008.35	$1,924.67	$1,840.99	55
				30	20		EAR99	PEWCT1049	$2,123.36	$2,038.43	$1,953.49	$1,868.56	56
				40	20		EAR99	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 Asemblies or visit our website

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-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			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			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			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			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			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+	ROW
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
PEWCP1035	PEWCT1000	PEWCT1044	2.92mm
PEWCP1036	PEWCT1001	PEWCT1045	2.92mm
PEWCP1037	PEWCT1002	PEWCT1046	2.92mm
PEWCP1038	PEWCT1003	PEWCT1047	2.92mm
PEWCP1039	PEWCT1004	PEWCT1048	SMA
PEWCP1040	PEWCT1005	PEWCT1049	SMA
PEWCP1041	PEWCT1006	PEWCT1050	SMA
PEWCP1042	PEWCT1007	PEWCT1051	SMA
PEWCP1043	PEWCT1008	PEWCT1052	SMA
PEWCP1044	PEWCT1009	PEWCT1053	SMA
PEWCP1045	PEWCT1010	PEWCT1054	SMA
PEWCP1046	PEWCT1011	PEWCT1055	SMA
PEWCP1047	PEWCT1012	PEWCT1056	SMA
PEWCP1048	PEWCT1013	PEWCT1057	SMA
PEWCP1049	PEWCT1014	PEWCT1058	SMA
PEWCP1050	PEWCT1015	PEWCT1059	SMA
PEWCP1051	PEWCT1016	PEWCT1060	SMA
		PEWCT1064	N
PEWCP1052	PEWCT1017	PEWCT1061	SMA
		PEWCT1065	N
PEWCP1053	PEWCT1018	PEWCT1062	SMA
		PEWCT1066	N
PEWCP1054	PEWCT1019	PEWCT1063	SMA
		PEWCT1067	N
PEWCP1055	PEWCT1020	PEWCT1068	SMA
		PEWCT1076	N
PEWCP1056	PEWCT1021	PEWCT1069	SMA
		PEWCT1077	N
PEWCP1057	PEWCT1022	PEWCT1070	SMA
		PEWCT1078	N
PEWCP1058	PEWCT1023	PEWCT1071	SMA
		PEWCT1079	N
PEWCP1059	PEWCT1024	PEWCT1072	SMA
		PEWCT1080	N
PEWCP1060	PEWCT1025	PEWCT1073	SMA
		PEWCT1081	N

WG Crossguide Coupler	WG Crossguide Coupler with Termination	WG Crossguide Coupler with Termination & Coax Adapter SMA/ Type N	Conn. Type
PEWCP1061	PEWCT1026	PEWCT1074	SMA
		PEWCT1082	N
PEWCP1062	PEWCT1027	PEWCT1075	SMA
		PEWCT1083	N
PEWCP1063	PEWCT1028	PEWCT1084	SMA
		PEWCT1092	N
PEWCP1064	PEWCT1029	PEWCT1085	SMA
		PEWCT1093	N
PEWCP1065	PEWCT1030	PEWCT1086	SMA
		PEWCT1094	N
PEWCP1066	PEWCT1031	PEWCT1087	SMA
		PEWCT1095	N
PEWCP1067	PEWCT1032	PEWCT1088	SMA
		PEWCT1096	N
PEWCP1068	PEWCT1033	PEWCT1089	SMA
		PEWCT1097	N
PEWCP1069	PEWCT1034	PEWCT1090	SMA
		PEWCT1098	N
PEWCP1070	PEWCT1035	PEWCT1091	SMA
		PEWCT1099	N
PEWCP1071	PEWCT1036	PEWCT1100	SMA
		PEWCT1108	N
PEWCP1072	PEWCT1037	PEWCT1101	SMA
		PEWCT1109	N
PEWCP1073	PEWCT1038	PEWCT1102	SMA
		PEWCT1110	N
PEWCP1074	PEWCT1039	PEWCT1103	SMA
		PEWCT1111	N
PEWCP1075	PEWCT1040	PEWCT1104	SMA
		PEWCT1112	N
PEWCP1076	PEWCT1041	PEWCT1105	SMA
		PEWCT1113	N
PEWCP1077	PEWCT1042	PEWCT1106	SMA
		PEWCT1114	N
PEWCP1078	PEWCT1043	PEWCT1107	SMA
		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			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
	SPDT		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
WR-34	SPDT/ DPDT	22 - 33	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
WR-42	SPDT	18 - 26.5	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
WR-62		12.4 - 18	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
WR-75		10 - 15	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
WR-90	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

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 Indincator
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-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
			B, L, TTL, S, I, M	0.07	80	12	EAR99	PEWGS6019	$4,390.32	$4,214.71	$4,039.09	$3,863.48	72
				0.07	80	28	EAR99	PEWGS6017	$3,828.39	$3,675.25	$3,522.12	$3,368.98	73
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		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
	SPDT		B, L, S, I, M	0.05	80		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-137		5.85 - 8.2	B, L, S, I, M	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
			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
WR-159	SPDT/ DPDT	4.9 - 7.05	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		3.95 - 5.85	L, S, SI, M, V	0.02	80		EAR99	PEWGS6030	$4,489.34	$4,309.77	$4,130.19	$3,950.62	94
				0.02	80	28	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 Indincator
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	PEWG6056	Call	Call	Call	Call	1
				0.4	50		EAR99	PEWG6065	Call	Call	Call	Call	2
				0.4	50		EAR99	PEWG6066	Call	Call	Call	Call	3
				0.4	50		EAR99	PEWG6067	Call	Call	Call	Call	4
				0.4	50		EAR99	PEWG6068	Call	Call	Call	Call	5
				0.4	50		EAR99	PEWG6069	Call	Call	Call	Call	6
				0.4	50		EAR99	PEWG6070	Call	Call	Call	Call	7
				0.4	50		EAR99	PEWG6071	Call	Call	Call	Call	8
				0.4	50		EAR99	PEWG6057	Call	Call	Call	Call	9
				0.4	50		EAR99	PEWG6058	Call	Call	Call	Call	10
				0.4	50		EAR99	PEWG6059	Call	Call	Call	Call	11
				0.4	50		EAR99	PEWG6060	Call	Call	Call	Call	12
				0.4	50		EAR99	PEWG6061	Call	Call	Call	Call	13
				0.4	50		EAR99	PEWG6062	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	PEWG6063	Call	Call	Call	Call	16
				0.4	50		EAR99	PEWG6064	Call	Call	Call	Call	17
				0.4	50	28	EAR99	PEWGS6053	$8,996.00	$8,636.16	$8,276.32	$7,916.48	18

DOUBLE RIDGE WAVEGUIDE ELECTROMECHANICAL RELAY SWITCHES

Features:
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I: Indicators
L: Latching
M: Manual Override
N: Normally Open
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P: Pulse Latching
R: Reflective
RS: Reset
S: Self Cut Off
SI: Set Indincator
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-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		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

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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	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		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		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		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		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	1.2:1	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	1.15:1	5	EAR99	PEWAT1007-30	1,465.91	1,363.30	1,260.68	1,172.73	56

FLEXIBLE WAVEGUIDES

Seamless

Waveguide Type	RF Frequency (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
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		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		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	12	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		CPR-112G	EAR99	PE-W112SF006-12	$1,209.22	$1,160.85	$1,112.48	$1,064.11	84
		0.08	1.07:1		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		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		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		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		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		Round Cover UG-344/U	EAR99	PE-W137SF005-36	$2,933.58	$2,816.24	$2,698.89	$2,581.55	95

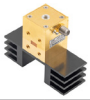
Twistable

Waveguide Type	RF Frequency (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
WR-22	33 - 50	0.6	1.3:1	6	Round Cover UG-383/U	EAR99	PE-W22TF005-6	$860.18				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		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		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
		0.45	1.1:1		Square Cover UG-39/U	EAR99	PE-W90TF005-36	$742.69				23
WR-112	7.05 - 10	0.12	1.07:1	12	CPR-112G	EAR99	PE-W112TF006-12	$676.80				24
		0.12	1.3:1		Square Cover UG-51/U	EAR99	PE-W112TF005-12	$699.07				25
		0.24	1.07:1	24	CPR-112G	EAR99	PE-W112TF006-24	$759.00				26
		0.24	1.07:1		Square Cover UG-51/U	EAR99	PE-W112TF005-24	$714.11				27
		0.36	1.07:1	36	CPR-112G	EAR99	PE-W112TF006-36	$792.58				28
		0.36	1.07:1		Square Cover UG-51/U	EAR99	PE-W112TF005-36	$792.58				29
WR-137	5.85 - 8.2	0.07	1.05:1	12	CPR-137G	EAR99	PE-W137TF006-12	$650.64				30
		0.07	1.05:1		Round Cover UG-344/U	EAR99	PE-W137TF005-12	$651.13				31
		0.14	1.05:1	24	CPR-137G	EAR99	PE-W137TF006-24	$742.69				32
		0.14	1.05:1		Round Cover UG-344/U	EAR99	PE-W137TF005-24	$813.56				33
		0.18	1.05:1	36	Round Cover UG-344/U	EAR99	PE-W137TF005-36	$918.15				34
		0.21	1.05:1		CPR-137G	EAR99	PE-W137TF006-36	$846.15				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

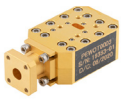
WAVEGUIDE LOW NOISE AMPLIFIERS

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 Polariza-tion (dB)	V to A Cross Polariza-tion (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 Band-width (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		1.15:1	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		EAR99	PEW06S000-1	$500.83	$475.79	$450.75	$430.71	86
				3		EAR99	PEW06S000-3	$544.46	$517.24	$490.01	$468.24	87
		0.55		6		EAR99	PEW06S000-6	$697.68	$662.80	$627.91	$600.00	88
		0.75		9		EAR99	PEW06S000-9	$805.18	$764.92	$724.66	$692.45	89
		1.5		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
				3		EAR99	PEW08S000-3	$479.00	$455.05	$431.10	$411.94	92
		0.5		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	See Web for Volume Pricing	94
		1.2		12		EAR99	PEW08S000-12	$948.17		95
WR-10	75 - 110	0.25	1.06:1	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				EAR99	PEW12S010-9	$513.24		2
		0.82		12		EAR99	PE-W12S001-12	$532.95		3
WR-15	50 - 75	0.2		3	Round Cover UG-385/U	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
		0.64		12		EAR99	PE-W15S001-12	$699.32		7
		0.95				EAR99	PEW15S010-12	$699.32		8
WR-19	40 - 60	0.15		3	Round Cover UG-383/U-Mod	EAR99	PE-W19S001-3	$388.78		9
		0.2				EAR99	PEW19S010-3	$388.78		10
		0.25		6		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				EAR99	PEW19S010-12	$561.84		14
WR-22	33 - 50	0.13		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	1.1:1	3		EAR99	PEW22S010-3	$428.93		17
		0.29	1.06:1	9		EAR99	PE-W22S001-9	$458.34		18
		0.36		12		EAR99	PE-W22S001-12	$551.25		19
			1.09:1	4		EAR99	PEWSP1000	$634.77		20
WR-28	26.5 - 40	0.11	1.06:1	3	Square Cover UG-599/U	EAR99	PE-W28S001-3	$363.03		21
		0.2				EAR99	PEW28S010-3	$396.08		22
				6		EAR99	PEW28S010-6	$441.91		23
		0.22		9		EAR99	PE-W28S001-9	$475.22		24
			1.09:1	4		EAR99	PEWSP1001	$560.08		25
WR-34	20 - 33		1.07:1		Square Cover UG-1530/U	EAR99	PEWSP1002	$578.76		26
WR-42	18 - 26.5	0.08	1.06:1	3	Square Cover UG-595/U	EAR99	PE-W42S002-3	$428.93		27
		0.12		6		EAR99	PE-W42S001A-6	$398.69		28
		0.15		9		EAR99	PE-W42S001A-9	$470.32		29
		0.18		12		EAR99	PE-W42S001-12	$572.74		30
			1.07:1	4		EAR99	PEWSP1003	$560.08		31
WR-51	15 - 22	0.11	1.06:1	9	UBR180	EAR99	PE-W51S001-9	$399.92		32
		0.13		12		EAR99	PE-W51S001-12	$541.16		33
			1.07:1	4	Square Cover	EAR99	PEWSP1004	$597.44		34
WR-62	12.4 - 18	0.08	1.06:1	6	Square Cover UG-419/U	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
			1.03:1	3		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
				9		EAR99	PE-W62S001-9	$355.78		41
				12		EAR99	PE-W62S001-12	$363.11		42
WR-75	10 - 15	0.1		6	UBR120	EAR99	PE-W75S001A-6	$336.05		43
				3		EAR99	PE-W75S001-3	$350.72		44
			1.07:1	4	Square Cover	EAR99	PEWSP1006	$587.43		45
			1.03:1	6	UBR120	EAR99	PE-W75S001-6	$341.08		46
				9		EAR99	PE-W75S001-9	$348.44		47
WR-90	8.2 - 12.4	0.1			Square Cover UG-39/U	EAR99	PE-W90S001A-9	$256.56		48
				3		EAR99	PE-W90S001-3	$223.73		49
					CPR-90G	EAR99	PE-W90S002-3	$276.87		50
			1.07:1	4	Square Cover UG-39/U	EAR99	PEWSP1007	$606.38		51
					CPR-90G	EAR99	PEWSP1008	$604.89		52
			1.03:1	6	Square Cover UG-39/U	EAR99	PE-W90S001-6	$227.39		53
					CPR-90G	EAR99	PE-W90S002-6	$325.88		54
				9	Square Cover UG-39/U	EAR99	PE-W90S001-9	$260.41		55
					CPR-90G	EAR99	PE-W90S002-9	$324.84		56
				12	Square Cover UG-39/U	EAR99	PE-W90S001-12	$272.26		57
					CPR-90G	EAR99	PE-W90S002-12	$337.83		58

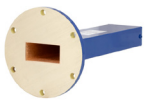
WAVEGUIDE SECTIONS

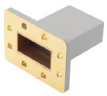
WG Type	RF Freq. (GHz.)	IL (dB)	VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
WR-112	7.05 - 10		1.03:1	3	Square Cover UG-51/U	EAR99	PE-W112S001-3	$344.76		See Web for Volume Pricing		59
			1.07:1	4		EAR99	PEWSP1009	$616.09				60
					CPR-112G	EAR99	PEWSP1010	$619.84				61
			1.03:1	6	Square Cover UG-51/U	EAR99	PE-W112S001-6	$331.35				62
				9		EAR99	PE-W112S001-9	$379.42				63
				12		EAR99	PE-W112S001-12	$350.83				64
WR-137	5.85 - 8.2	0.1		6	CPR-137G	EAR99	PE-W137S002A-6	$390.26				65
				3	Round Cover UG-344/U	EAR99	PE-W137S001-3	$367.90				66
					CPR-137G	EAR99	PE-W137S002-3	$366.77				67
			1.07:1	4	Round Cover UG-344/U	EAR99	PEWSP1011	$642.24				68
					CPR-137G	EAR99	PEWSP1012	$636.68				69
			1.03:1	6	Round Cover UG-344/U	EAR99	PE-W137S001-6	$370.32				70
				9		EAR99	PE-W137S001-9	$405.03				71
					CPR-137G	EAR99	PE-W137S002-9	$381.40				72
				12	Round Cover UG-344/U	EAR99	PE-W137S001-12	$418.53				73
					CPR-137G	EAR99	PE-W137S002-12	$436.45				74
WRD-180	18 - 40	0.4	1.25:1	3	Square Cover UG	EAR99	PEWRD180S001-3	$602.66				75
		0.5		6		EAR99	PEWRD180S001-6	$1,009.85				76
WRD-650	6.5 - 18	0.3	1.15:1	3		EAR99	PEWRD650S001-3	$537.50				77
		0.4		6		EAR99	PEWRD650S001-6	$912.12				78
WRD-750	7.5 - 18	0.3		3		EAR99	PEWRD750S001-3	$537.50				79
		0.4		6		EAR99	PEWRD750S001-6	$912.12				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
		1	1.03:1	2	Square Cover UG-599/U	EAR99	PE-W28TR1003	$532.13				91
	29.4 - 31	2	1.15:1	1	Square Cover UG-599/U	EAR99	PE-W28TR1002	$374.46				92
	26.5 - 40	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
		100	1.25:1	5	Square Cover UG-599/U	EAR99	PE-W28TR1005	$1,478.13				95
WR-34	22 - 33	0.5	1.25:1	1	Square Cover	EAR99	PE6801	$384.32				96
		0.5	1.05:1	3	Square Cover	EAR99	PE6810	$889.49				97
	19.6 - 21.2	1	1.15:1	1	Square Cover UG-597/U	EAR99	PE-W34TR1001	$413.88				98
	22 - 33	1	1.25:1		Square Cover UG-1530/U	EAR99	PEWTR1001	$627.29				99
		45	1.1:1	4	Square Cover	EAR99	PE6819	$1,422.00				1
		75	1.1:1		Square Cover	EAR99	PE6828	$1,319.98				2
WR-42	18 - 26.5	0.5	1.25:1	1	Square Cover UG-597/U	EAR99	PE6802	$471.63				3
		0.5	1.05:1	3	Square Cover	EAR99	PE6811	$1,047.79				4
	19.6 - 21.2	1	1.15:1	1	Square Cover UG-597/U	EAR99	PE-W42TR1002	$374.46				5
	18 - 26.5	1	1.02:1		Square Cover UG-595/U	EAR99	PEWTR1002	$622.15				6
		6	1.08:1	3	Square Cover UG-595/U	EAR99	PE-W42TR1001	$559.12				7
		50	1.07:1	4	Square Cover	EAR99	PE6820	$938.93				8
		100	1.1:1		Square Cover	EAR99	PE6829	$997.21				9
WR-51	15 - 18	1	1.2:1	1	Square Cover	EAR99	PE6803	$432.67				10
	15 - 22	1	1.05:1	3	Square Cover	EAR99	PE6812	$1,082.72				11
		1	1.02:1		Square Cover	EAR99	PEWTR1003	$645.78				12

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-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
		60	1.07:1	4	Square Cover	EAR99	PE6836	$971.89				17
WR-75	10 - 15	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
	8.2 - 12.4	4	1.02:1		Square Cover UG-39/U	EAR99	PEWTR1006	$598.53				26
		4	1.02:1		CPR-90G	EAR99	PEWTR1007	$610.35				27
	8.2 - 12.5	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
	5.38 - 8.17	500	1.25:1	14	CPR-137F	EAR99	PE-W137TR1001	$2,601.50				38
WR-159	4.64 - 7.05	5	1.03:1	8	CPR-159F	EAR99	PE-W159TR1002	$670.08				39
	4.8 - 5.2	50	1.2:1	4	CPR-159F	EAR99	PE-W159TR1001	$1,241.63				40
WR-187	3.94 - 5.99	5	1.03:1	9	CPR-187F	EAR99	PE-W187TR1002	$591.25				41
	4.4 - 5	70	1.1:1	3	CPR-187F	EAR99	PE-W187TR1001	$709.50				42
WR-229	3.22 - 4.9	5	1.03:1	10	CPR-229F	EAR99	PE-W229TR1001	$788.33				43
		5	1.2:1	3	CPR-229F	EAR99	PE-W229TR1002	$867.16				44
WR-284	2.6 - 3.95	5	1.03:1	12	CPR-284F	EAR99	PE-W284TR1001	$1,103.66				45
WRD-180	18 - 40	0.5	1.15:1	4	Square Cover UG	EAR99	PEWRD180TR1000	$1,417.05				46
WRD-650	6.5 - 18	1	1.15:1		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			ROW
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		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		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		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

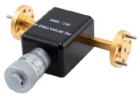
WAVEGUIDE TRANSITIONS

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
		1.43:1	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		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
		1.12:1	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	2	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
WR-19	40 - 60	1.25:1	45 Left-hand		Round Cover UG-383/U-Mod	EAR99	PE-W19TW1002	$449.59	$427.11	$404.63	$386.65	81
			45 Right-hand		Round Cover UG-383/U-Mod	EAR99	PE-W19TW1003	$449.59	$427.11	$404.63	$386.65	82
		1.22:1	90		Round Cover UG-383/U-Mod	EAR99	PE-W19TW1001	$396.25	$376.44	$356.63	$340.78	83
WR-22	33 - 50	1.02:1	45 Left-hand		Round Cover UG-383/U	EAR99	PE-W22TW1002	$449.59	$427.11	$404.63	$386.65	84
			45 Right-hand		Round Cover UG-383/U	EAR99	PE-W22TW1003	$449.59	$427.11	$404.63	$386.65	85
		1.15:1	90		Round Cover UG-383/U	EAR99	PEW22TW001	$396.25	$376.44	$356.63	$340.78	86
		1.02:1	90		Round Cover UG-383/U	EAR99	PE-W22TW1001	$402.18	$382.07	$361.96	$345.87	87
WR-28	26.5 - 40	1.1:1	45 Right-hand		Square Cover UG-595/U	EAR99	PEW28TW001	$481.07	$457.02	$432.96	$413.72	88
		1.09:1	45 Left-hand		Square Cover UG-599/U	EAR99	PE-W28TW1002	$488.27	$463.86	$439.44	$419.91	89
			45 Right-hand		Square Cover UG-599/U	EAR99	PE-W28TW1003	$488.27	$463.86	$439.44	$419.91	90
		1.07:1	90		Square Cover UG-599/U	EAR99	PE-W28TW1001	$402.18	$382.07	$361.96	$345.87	91
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	92
			45 Right-hand		Square Cover UG-595/U	EAR99	PE-W42TW1003	$475.67	$451.89	$428.10	$409.08	93
		1.07:1	90		Square Cover UG-595/U	EAR99	PE-W42TW1001	$419.57	$398.59	$377.61	$360.83	94
WRD-750	7.5 - 18	1.25:1	90	8	Square Cover UG	EAR99	PEWRD750TW1001	$912.12	$866.51	$820.91	$784.42	95
WRD-180	18 - 40	1.35:1	90	3	Square Cover UG	EAR99	PEWRD180TW1001	$1,009.85	$959.36	$908.87	$868.47	96
WR-8	90 - 140		45 Right-hand	1	Square Cover UG-387/U-Mod	EAR99	PEW8TW0000	$544.46	$517.24	$490.01	$468.24	97
			45 Left-hand		Square Cover UG-387/U-Mod	EAR99	PEW8TW0001	$536.43	$509.61	$482.79	$461.33	98
			90 Right-hand		Round Cover UG-387/U-Mod	EAR99	PEW8TW0002	$536.43	$509.61	$482.79	$461.33	99
WR-6	110 - 170		45 Right-hand		Square Cover UG-387/U-Mod	EAR99	PEW6TW0000	$544.46	$517.24	$490.01	$468.24	1
			45 Left-hand		Square Cover UG-387/U-Mod	EAR99	PEW6TW0001	$536.43	$509.61	$482.79	$461.33	2
			90 Right-hand		Round Cover UG-387/U-Mod	EAR99	PEW6TW0002	$544.46	$517.24	$490.01	$468.24	3
WR-5	140 - 220		45 Right-hand		Square Cover UG-387/U-Mod	EAR99	PEW5TW0000	$577.19	$548.33	$519.47	$496.38	4
			45 Left-hand		Square Cover UG-387/U-Mod	EAR99	PEW5TW0001	$568.68	$540.25	$511.81	$489.06	5
			90 Right-hand		Round Cover UG-387/U-Mod	EAR99	PEW5TW0002	$568.68	$540.25	$511.81	$489.06	6
WRD-650	6.5 - 18		90	8	Square Cover UG	EAR99	PEWRD650TW1001	$912.12	$866.51	$820.91	$784.42	7

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				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				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				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	See Web for Volume Pricing			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				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				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				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				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				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				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

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PASTERNACK 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.

PASTERNACK 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.

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-PASTERNACK (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.PASTERNACK.COM**
OR EMAIL: SALES@PASTERNACK.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:**
PASTERNACK 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: WFBIUS6S

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; (vi) 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

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 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 sellers' 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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PEWCP1008	372	35
PEWCP1009	372	36
PEWCP1010	372	37
PEWCP1011	372	38
PEWCP1012	372	39
PEWCP1013	372	40
PEWCP1014	372	41
PEWCP1015	372	42
PEWCP1016	372	43
PEWCP1017	372	44
PEWCP1018	372	46
PEWCP1019	372	48
PEWCP1020	372	45
PEWCP1021	372	47
PEWCP1022	372	49
PEWCP1023A	372	50
PEWCP1024	372	52
PEWCP1025	372	54
PEWCP1026	372	51
PEWCP1027	372	53
PEWCP1028	372	55
PEWCP1029	372	56
PEWCP1030	372	58
PEWCP1031	372	60
PEWCP1032	372	57
PEWCP1033	372	59
PEWCP1034	372	61
PEWCP1035	372	62
PEWCP1036	372	63
PEWCP1037	372	64
PEWCP1038	372	65
PEWCP1039	372	66
PEWCP1040	372	67
PEWCP1041	372	68
PEWCP1042	372	69
PEWCP1043	373	70
PEWCP1044	373	71
PEWCP1045	373	72
PEWCP1046	373	73
PEWCP1047	373	74
PEWCP1048	373	75
PEWCP1049	373	76
PEWCP1050	373	77
PEWCP1051	373	79
PEWCP1052A	373	80
PEWCP1053	373	81
PEWCP1054	373	78
PEWCP1055	373	82
PEWCP1056	373	84
PEWCP1057	373	86
PEWCP1058	373	88
PEWCP1059	373	83
PEWCP1060	373	85
PEWCP1061	373	87
PEWCP1062	373	89
PEWCP1063	373	90
PEWCP1064	373	92
PEWCP1065	373	94
PEWCP1066	373	96
PEWCP1067	373	91
PEWCP1068	373	93
PEWCP1069	373	95
PEWCP1070	373	97
PEWCP1071	373	98
PEWCP1072	373	1
PEWCP1073	373	3
PEWCP1074	373	5
PEWCP1075	373	99
PEWCP1076	373	2
PEWCP1077	373	4
PEWCP1078	373	6
PEWCP1079-10	371	23
PEWCP1080-20	371	13
PEWCT1000	373	7
PEWCT1001	373	8
PEWCT1002	373	9
PEWCT1003	373	10
PEWCT1004	373	11
PEWCT1005	373	12
PEWCT1006	373	13
PEWCT1007	373	14
PEWCT1008	374	15
PEWCT1009	374	16
PEWCT1010	374	17
PEWCT1011	374	18
PEWCT1012	374	19
PEWCT1013	374	20
PEWCT1014	374	21
PEWCT1015	374	22
PEWCT1016	374	24
PEWCT1017	374	25
PEWCT1018	374	26
PEWCT1019	374	23
PEWCT1020	374	27
PEWCT1021	374	29
PEWCT1022	374	31
PEWCT1023	374	33
PEWCT1024	374	28
PEWCT1025	374	30
PEWCT1026	374	32
PEWCT1027	374	34
PEWCT1028	374	35
PEWCT1029	374	37
PEWCT1030	374	39
PEWCT1031	374	41
PEWCT1032	374	36
PEWCT1033	374	38
PEWCT1034	374	40
PEWCT1035	374	42
PEWCT1036	374	43
PEWCT1037	374	45
PEWCT1038	374	47
PEWCT1039	374	49
PEWCT1040	374	44
PEWCT1041	374	46
PEWCT1042	374	48
PEWCT1043	374	50
PEWCT1044	374	51
PEWCT1045	374	52
PEWCT1046	374	53
PEWCT1047	374	54
PEWCT1048	374	55
PEWCT1049	374	56
PEWCT1050	374	57
PEWCT1051	374	58
PEWCT1052	375	59
PEWCT1053	375	60
PEWCT1054	375	61
PEWCT1055	375	62
PEWCT1056	375	63
PEWCT1057	375	64
PEWCT1058	375	65
PEWCT1059	375	66
PEWCT1060	375	70
PEWCT1061	375	72
PEWCT1062	375	74
PEWCT1063	375	68
PEWCT1064	375	71
PEWCT1065	375	73
PEWCT1066	375	67
PEWCT1067	375	69
PEWCT1068	375	75
PEWCT1069	375	79
PEWCT1070	375	83
PEWCT1071	375	87
PEWCT1072	375	76
PEWCT1073	375	80
PEWCT1074	375	84
PEWCT1075	375	88
PEWCT1076	375	77
PEWCT1077	375	81
PEWCT1078	375	85
PEWCT1079	375	89
PEWCT1080	375	78
PEWCT1081	375	82
PEWCT1082	375	86
PEWCT1083	375	90
PEWCT1084	375	91
PEWCT1085	375	95
PEWCT1086	375	99
PEWCT1087	375	4
PEWCT1088	375	92
PEWCT1089	375	96
PEWCT1090	375	1
PEWCT1091	375	5
PEWCT1092	375	93
PEWCT1093	375	97
PEWCT1094	375	2
PEWCT1095	375	6
PEWCT1096	375	94
PEWCT1097	375	98
PEWCT1098	375	3
PEWCT1099	375	7
PEWCT1100	375	8
PEWCT1101	376	12
PEWCT1102	376	16
PEWCT1103	376	20
PEWCT1104	375	9
PEWCT1105	376	13
PEWCT1106	376	17
PEWCT1107	376	21
PEWCT1108	375	10
PEWCT1109	376	14
PEWCT1110	376	18
PEWCT1111	376	22
PEWCT1112	376	11
PEWCT1113	376	15
PEWCT1114	376	19
PEWCT1115	376	23
PEWG6056	378	1
PEWG6057	378	9
PEWG6058	378	10
PEWG6059	378	11
PEWG6060	378	12
PEWG6061	378	13
PEWG6062	378	14
PEWG6063	378	16
PEWG6064	378	17
PEWG6065	378	2
PEWG6066	378	3
PEWG6067	378	4
PEWG6068	378	5
PEWG6069	378	6
PEWG6070	378	7
PEWG6071	378	8
PEWGHW1000	389	83
PEWGHW1001	389	82
PEWGHW9000	389	81
PEWGK1000	388	24
PEWGK1001	388	32
PEWGK1002	388	34
PEWGK1003	388	36
PEWGK1004	388	40
PEWGK1005	389	46
PEWGK1006	389	48
PEWGK1007	389	47
PEWGK1008	389	54
PEWGK1009	389	56
PEWGK1010	389	55
PEWGK1011	389	62
PEWGK1012	389	64
PEWGK1013	389	63
PEWGK1014	388	23
PEWGK1015	388	31
PEWGK1016	388	33
PEWGK1017	388	35
PEWGK1018	388	39
PEWGK1019	389	43
PEWGK1020	389	45
PEWGK1021	389	44
PEWGK1022	389	51
PEWGK1023	389	53
PEWGK1024	389	52
PEWGK1025	389	61
PEWGK1026	389	59
PEWGK1027	389	60
PEWGN1010	381	37
PEWGN1011	381	38
PEWGN1012	381	36
PEWGN1013	381	39
PEWGS6000	377	43
PEWGS6001	377	45
PEWGS6002	377	42
PEWGS6003	377	44
PEWGS6004	377	51
PEWGS6005	377	53
PEWGS6006	377	50
PEWGS6007	377	52
PEWGS6008	377	55
PEWGS6009	377	57
PEWGS6010	377	54
PEWGS6011	377	56
PEWGS6012	377	59
PEWGS6013	377	61
PEWGS6014	377	58
PEWGS6015	377	60
PEWGS6016	378	71
PEWGS6017	378	73
PEWGS6018	378	70
PEWGS6019	378	72
PEWGS6020	378	83
PEWGS6021	378	85
PEWGS6022	378	82
PEWGS6023	378	84
PEWGS6024	378	87
PEWGS6025	378	89
PEWGS6026	378	86
PEWGS6027	378	88
PEWGS6028	378	95
PEWGS6029	378	97
PEWGS6030	378	94
PEWGS6031	378	96
PEWGS6032	378	91
PEWGS6033	378	92
PEWGS6034	378	90
PEWGS6035	378	93
PEWGS6036	378	75
PEWGS6037	378	77
PEWGS6038	378	74
PEWGS6039	378	76
PEWGS6040	377	47
PEWGS6041	377	49
PEWGS6042	377	46
PEWGS6043	377	48
PEWGS6044	379	20
PEWGS6045	379	22
PEWGS6046	379	19
PEWGS6047	379	21
PEWGS6048	379	24
PEWGS6049	379	26
PEWGS6050	379	23
PEWGS6051	379	25
PEWGS6052	378	99
PEWGS6053	378	18
PEWGS6054	378	98
PEWGS6055	378	15
PEWGS6056	377	38
PEWGS6057	377	39
PEWGS6058	377	40
PEWGS6059	377	41
PEWGS6060	377	62
PEWGS6061	377	64
PEWGS6062	378	66
PEWGS6063	378	68
PEWGS6064	377	63
PEWGS6065	377	65
PEWGS6066	378	67
PEWGS6067	378	69
PEWGS6068	378	78
PEWGS6069	378	79
PEWGS6070	378	80
PEWGS6071	378	81
PEWIR1000	381	40
PEWIR1001	381	41
PEWIR1002	381	42
PEWIR1003	381	43
PEWIR1004	381	44
PEWIR1006	381	50
PEWIR1007	381	49
PEWIR1008	381	48
PEWIR1009	381	47
PEWIR1010	381	46
PEWIR1015	381	45
PEWMT1000	382	53
PEWMT1001	382	54
PEWMT1002	382	55
PEWMT1003	382	56
PEWMT1004	382	57
PEWMT1005	382	58
PEWMT1006	382	59
PEWNS2000	318	6
PEWNS2001	318	7
PEWNS2002	318	8
PEWNS2003	318	9
PEWOT0001	382	60
PEWOT0003	382	61
PEWOT0007	382	62
PEWOT0009	382	63
PEWOT0014	382	64
PEWPL0000	383	76
PEWPL0005	383	77
PEWPL0008	383	78
PEWRD180B001	370	66
PEWRD180B002	370	67
PEWRD180S001-3	385	75
PEWRD180S001-6	385	76
PEWRD180TR1000	386	46
PEWRD180TW1001	387	96
PEWRD650B001	370	68
PEWRD650B002	370	69
PEWRD650S001-3	385	77
PEWRD650S001-6	385	78
PEWRD650TR1000	386	47
PEWRD650TW1001	387	7
PEWRD750B001	370	70
PEWRD750B002	370	71
PEWRD750S001-3	385	79
PEWRD750S001-6	385	80
PEWRD750TR1000

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	

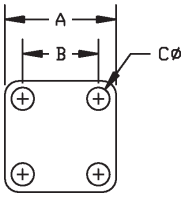
dBm	mV	Po
-46	1.18	
-47	1.0	
-48	0.9	
-49	0.8	
-50	0.71	.01 µW
-51	0.64	
-52	0.57	
-53	0.5	
-54	0.45	
-55	0.4	
-56	0.351	
-57	0.32	
-58	0.286	
-59	0.251	
-60	0.225	.001 µW
-61	0.2	
-62	0.18	
-63	0.16	
-64	0.141	
dBm	**µV**	**Po**
-65	128	
-66	115	
-67	100	
-68	90	
-69	80	
-70	71	.1 nW
-71	65	
-72	58	
-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 *f*W
-131	61	
-132	58	
-133	50	
-134	45	
-135	40	
-136	35	
-137	33	
-138	29	
-139	25	
-140	23	.01 *f*W

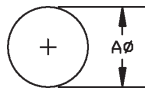
RETURN LOSS CONVERSION TABLE

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

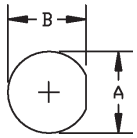
MOUNTING HOLES



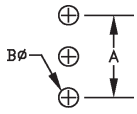
CODE	A	B	C
A01	.500	.340	.102
A02	.687	.500	.109
A03	.687	.500	#3-56 TAP
A04	.687	.500	.125
A05	1.000	.718	.125
A06	.750	.531	.140
A07	.750	.531	.125
A08	1.190	.906	.125
A09	.687	.500	#4-40 TAP
A10	.687	.500	.136
A11	1.250	.975	.147
A12	2.000	1.440	.257
A13	1.000	.718	.141
A14	1.000	.718	.144
A15	.687	.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



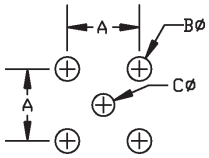
CODE	A
F01	.250
F02	.500
F03	.630
F04	1.200
F05	.380
F06	.450
F07	.200
F08	.362
F09	.220
F10	.317
F11	4.83mm
F12	.390



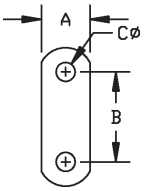
CODE	A	B
B01	.195	.177
B02	.250	.235
B03	.330	.295
B04	.380	.350
B05	.440	.410
B06	.512	.480
B07	.760	.720
B08	.565	.537
B09	.314	.296
B10	.140	.126
B11	.695	.655
B12	.625	.575
B13	.405	.361
B14	.277	.252
B15	.630	.596
B16	.317	.285
B17	.284	.268



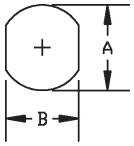
CODE	A	B
J01	.200	.046



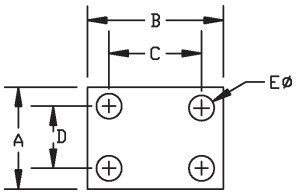
CODE	A	B	C
D01	.200	.067	.062
D02	.200	.067	.046
D03	.100	.031	.031
D04	.200	.052	.052
D05	.260	.067	.043
D06	.200	.052	.047
D07	.200	.055	.043
D08	.200	.067	.035
D09	.200	.055	.028
D10	.200	.055	.035
D11	.320	.091	.031
D12	.400	.062	.062
D13	.320	.091	.091
D14	.340	.091	.043
D15	.164	.067	.091
D16	.500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



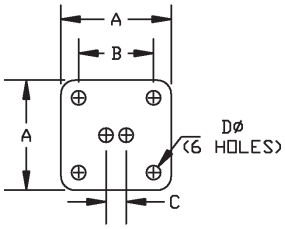
CODE	A	B	C
C01	.223	.481	.102
C02	.260	.481	.102
C03	.192	.328	.067
C04	.640	1.000	.125
C05	.275	.481	.102
C06	.230	.354	.067
C07	.188	.328	.093



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

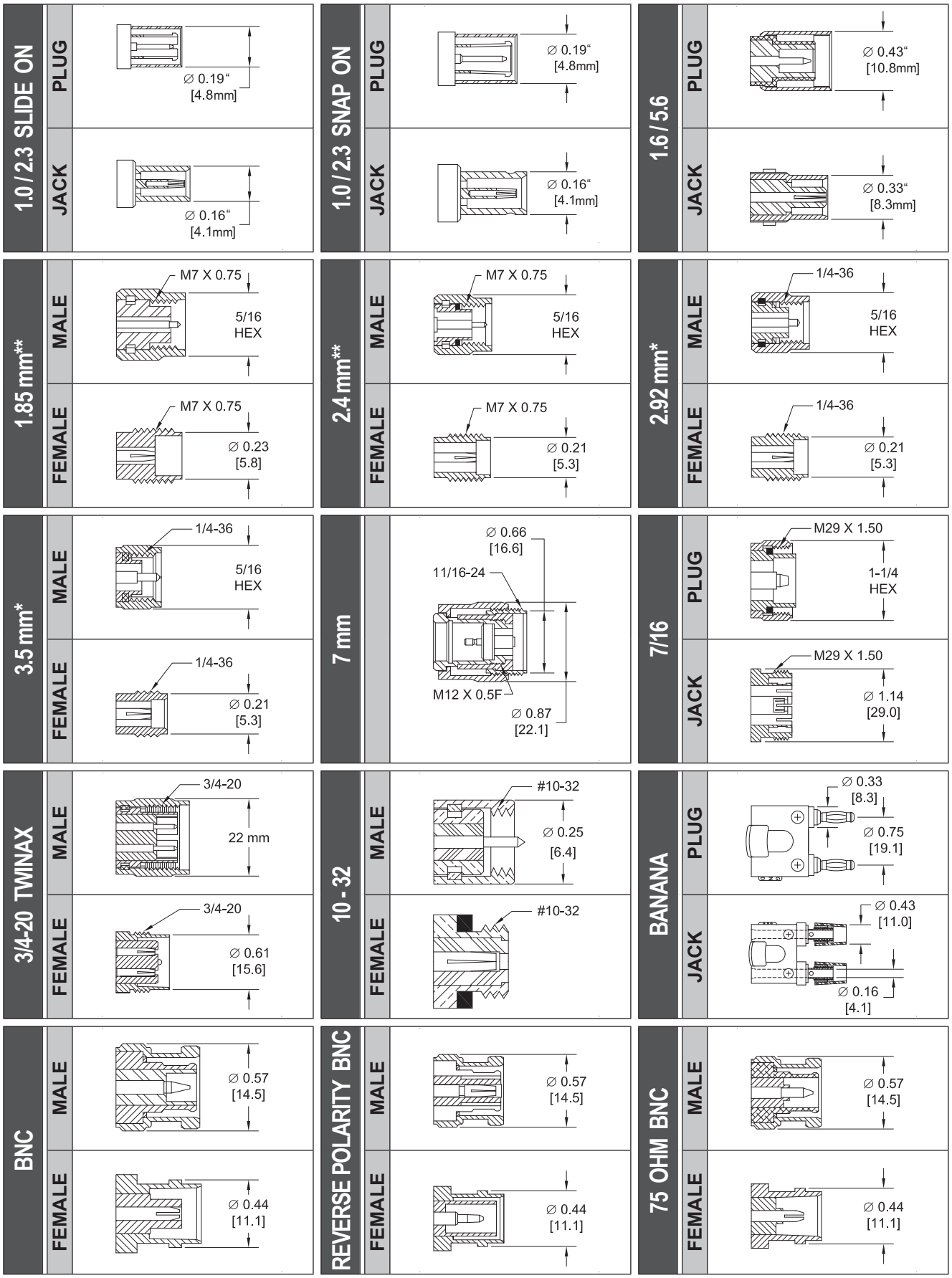


CODE	A	B	C	D
H01	.687	.500	.125	.045

Appendix

CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY



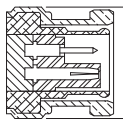
*SMA, 2.92mm, & 3.5mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER. **1.85mm & 2.4mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

CONNECTOR IDENTIFIER

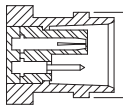
SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

BNC TWINAX

PLUG

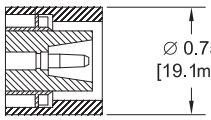


JACK

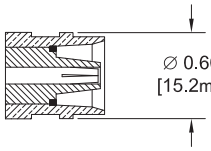


C

MALE

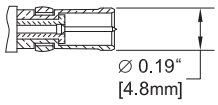


FEMALE

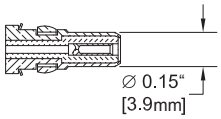


D SUBMINIATURE

PLUG

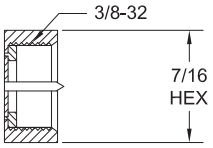


RECEPTACLE



F

MALE



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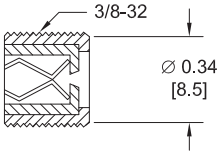
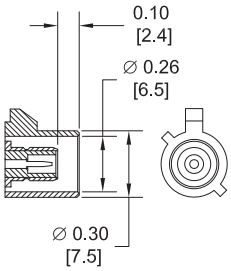


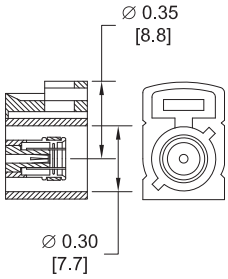
FAKRA

PLUG



FAKRA

JACK



FAKRA

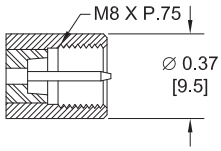
COMPLETE KEY CODE INFO

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

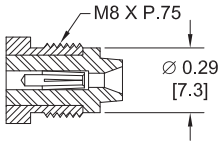
CODE	JACK	PLUG	COLOR	APPLICATION
H			VIOLET	GPS: TELEMATICS AND NAVIGATION
I			BEIGE	BLUETOOTH
K			CURRY	RADIO WITH I.F. OUTPUT (ANTENNA DIVERSITY)
Z			WATER BLUE	NEUTRAL CODING

FME

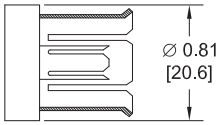
PLUG



JACK

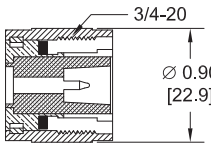


GR874



HN

MALE



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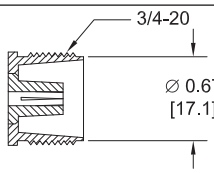
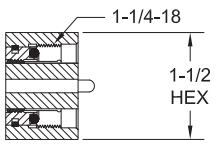


LC

MALE



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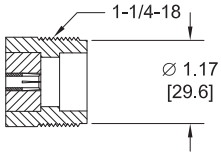
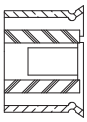
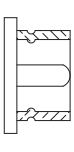


UMCX

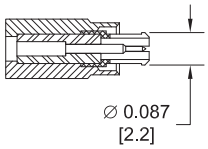
PLUG



JACK

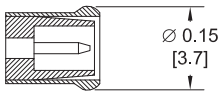


MC-CARD

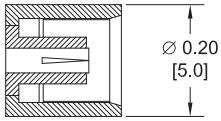


MCX

PLUG

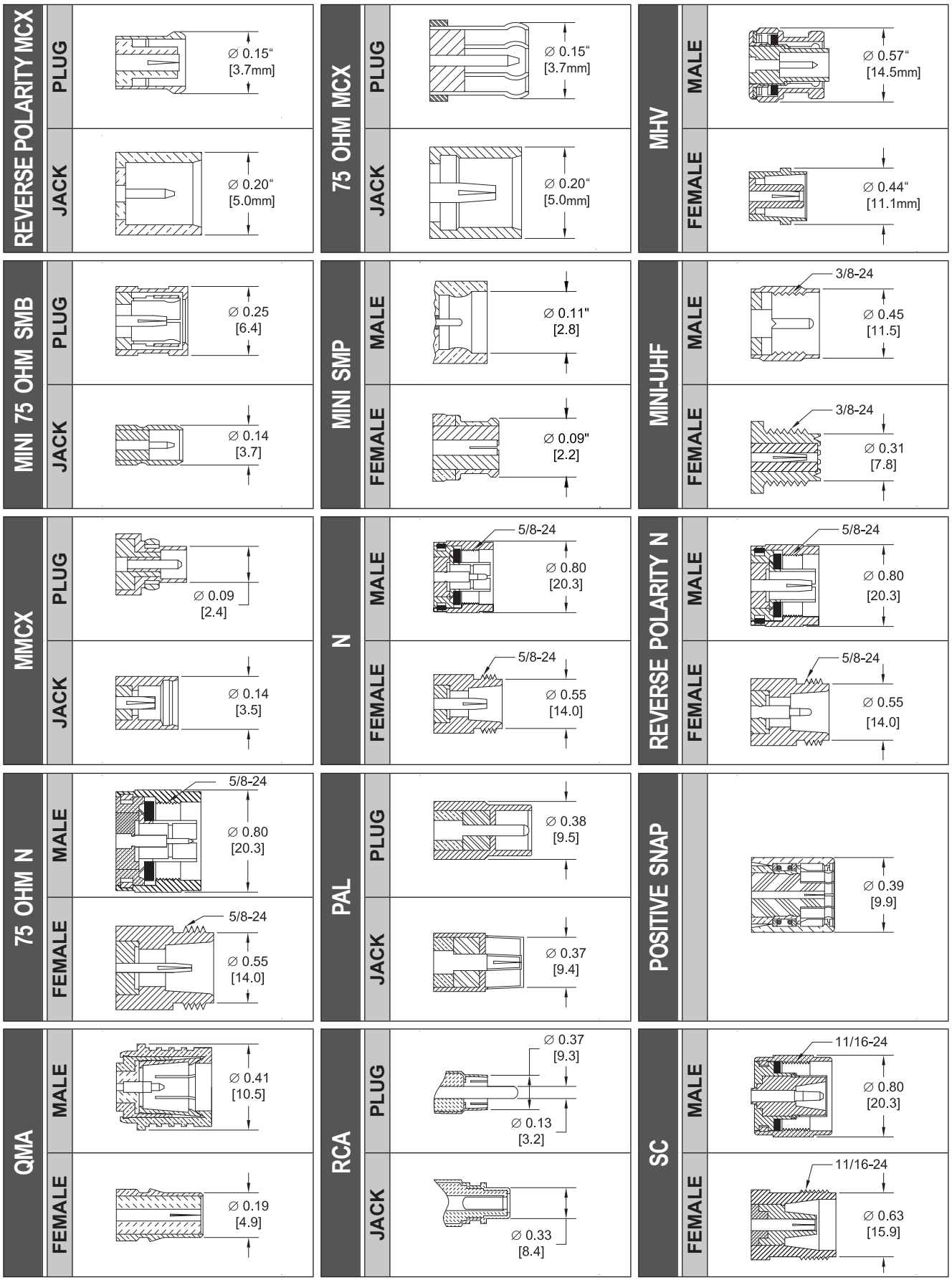


JACK



CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY



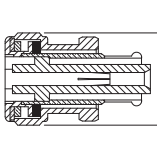
Appendix

CONNECTOR IDENTIFIER

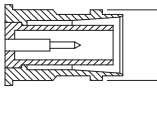
SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

SHV

PLUG

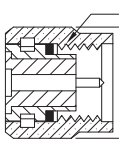


JACK

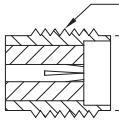


SMA*

MALE

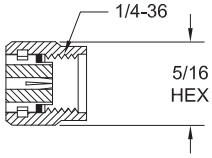


FEMALE

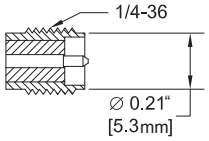


REVERSE POLARITY SMA

MALE

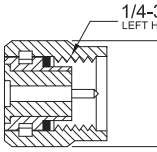


FEMALE

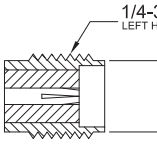


SMA REVERSE THREAD

MALE

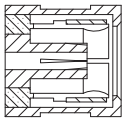


FEMALE

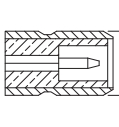


SMB

PLUG

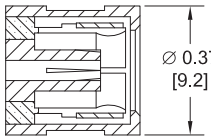


JACK

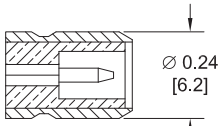


75 OHM SMB

PLUG

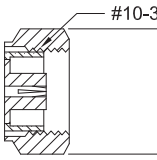


JACK



SMC

PLUG



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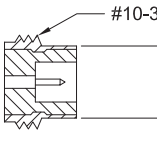
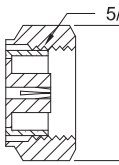


75 OHM SMC

PLUG



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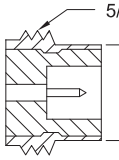
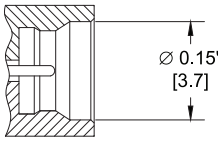


SMP

MALE



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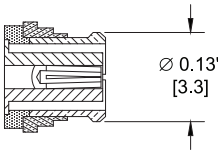
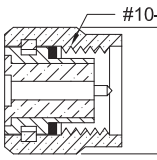


SSMA

MALE



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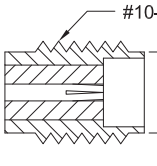
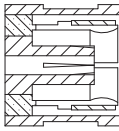


SSMB

PLUG



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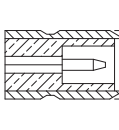
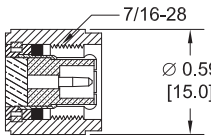


TNC

MALE



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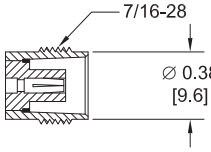
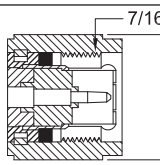


75 OHM TNC

MALE



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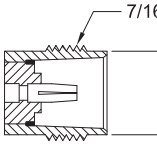
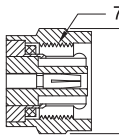


REVERSE POLARITY TNC

MALE



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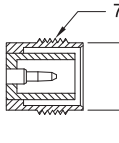
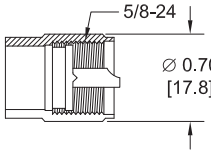


UHF

MALE



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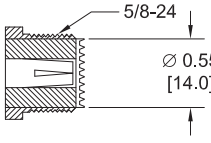
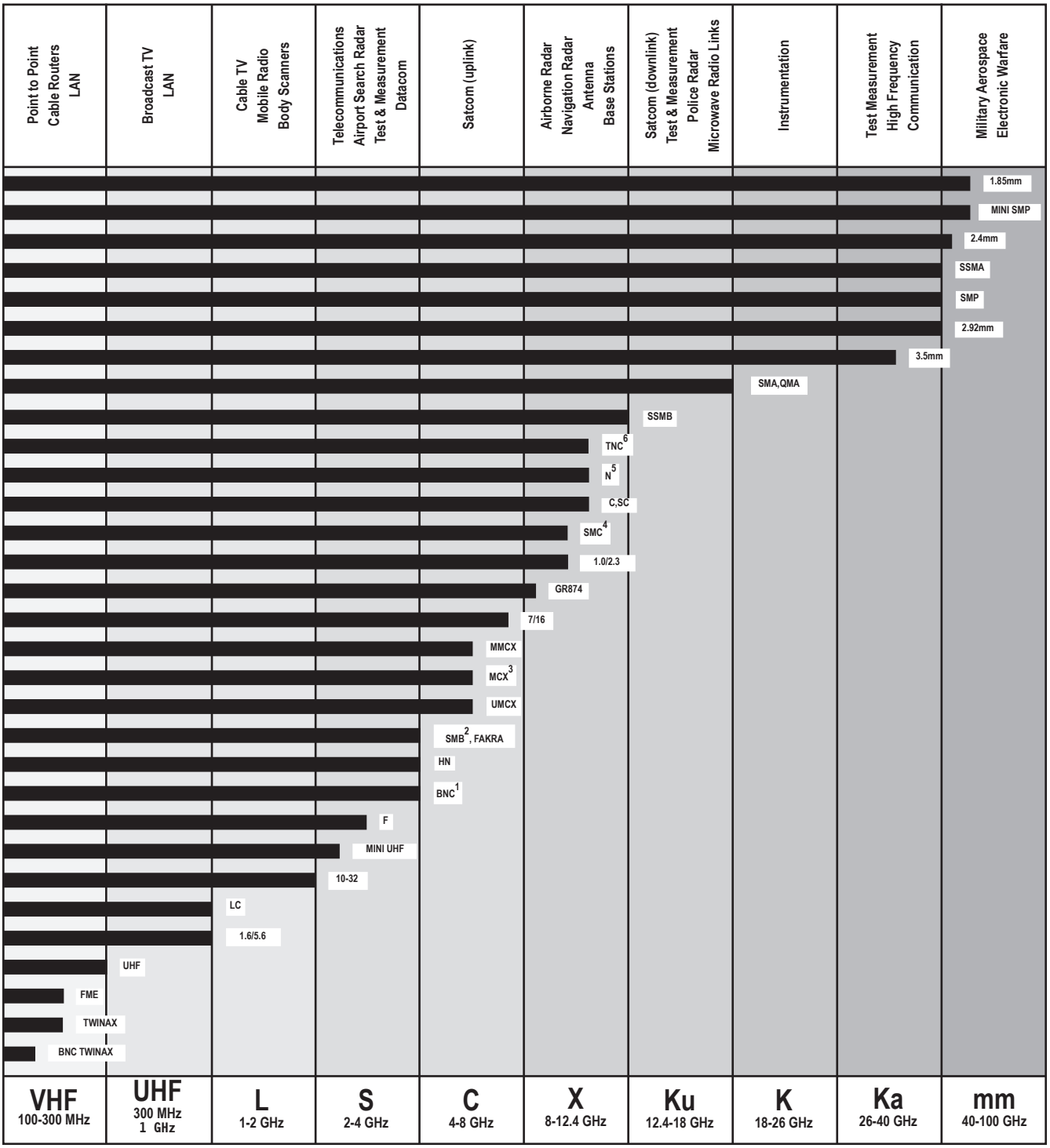


*SMA, 2.92mm & 3.5mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

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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- Procedury celne po naszej stronie
- Odroczony 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

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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