

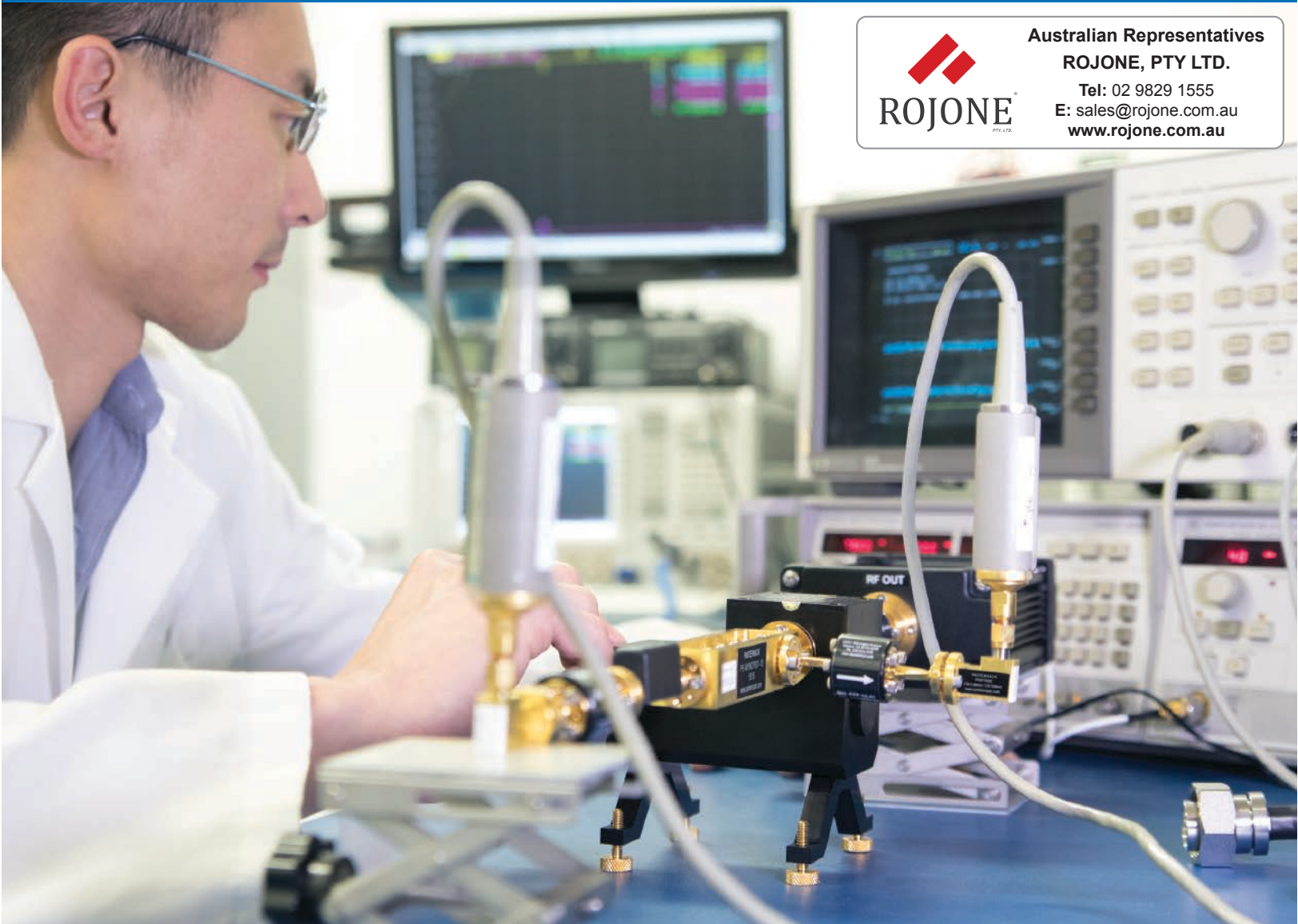
Pasternack

RF Product Guide 2019

Waveguides



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INDEX GUIDE TO WAVEGUIDE PRODUCTS

WAVEGUIDE ANTENNAS.....220

GAIN HORNS.....220 **GAIN HORNS WITH COAX.....220** **SPECIALTY WG ANTENNAS.....222**

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.....222



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.....222

BANDPASS.....222

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.....223



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.....224

MIXER DOWN CONVERTERS.....224 **MIXER UP CONVERTERS.....224**

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.....225

ASSEMBLIES.....227 **BROADWALL.....225** **CROSSGUIDE.....226**



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.....228

ZERO BIASED DETECTORS.....228

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.....228



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.....228

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.



FLEXIBLE WAVEGUIDES.....229

SEAMLESS.....229

TWISTABLE.....230

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.....231



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 MAGIC TEES.....231

Pasternack's magic, or hybrid tees are 4 port device that is internally tuned to optimize matching, balance, and isolation. A signal applied to the H port will be equally divided between the two collinear ports. A signal applied to the E port will be divided between the two collinear ports but with a 180 degree phase difference. Similarly, when two in-phase signals of equal amplitude are applied to the collinear ports, these will be added together at the H-plane (sum) port and subtracted from one another at the E-plane (difference) port.



WAVEGUIDE PHASE SHIFTERS.....232



These waveguide variable phase shifters are built using low loss dielectric material, which offers minimum insertion loss. They are equipped with micrometer, which allows fine control resulting in accurate and repeatable phase settings. The variable phase shifters are typically used in the test setups and prototype assemblies where accurate phase shifting is required.

WAVEGUIDE PIN DIODE SWITCHES.....232

Waveguide PIN Diode Switches consist of 4 models that cover 60 GHz to 110 GHz, in both SPST and SPDT configurations. Compact packages support WR-10 and WR12 waveguide sizes and SMA Female control connectors. All designs incorporate TTL-Compatible driver circuitry.



WAVEGUIDE POWER AMPLIFIERS.....232



Waveguide Power Amplifiers consist of 2 models that cover 70.5 GHz to 86.5 GHz (E Band) and support WR-12 waveguide ports. Performance includes small signal gain that ranges from 20 to 22 dB.

WAVEGUIDE SECTIONS.....233

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 with VSWR as low as 1.03:1.



WAVEGUIDE TO COAX ADAPTERS.....235 WAVEGUIDE TRANSITIONS.....237



Grooved waveguide to coax adapters have CPR-XXXG flanges with an o-ring groove that will accept an o-ring seal. These adapters have right angle launch Type N connectors and cover frequencies from 1.7 GHz to 12.4 GHz.



Pasternack's family of Waveguide Transitions (also sometimes called waveguide adapters) are used as a means of propagating RF/Microwave energy from one waveguide size to another.

GROOVED FLANGES.....235 STANDARD FLANGES.....235 WAVEGUIDE TWISTS.....238

Standard waveguide to coax adapters are available in right angle launch and end launch versions. These adapters are available in 15 different waveguide sizes, operating at frequencies from 1.7 GHz to 40 GHz.



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 TERMINATIONS.....234 WAVEGUIDE VARIABLE ATTEN.....239



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.



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.



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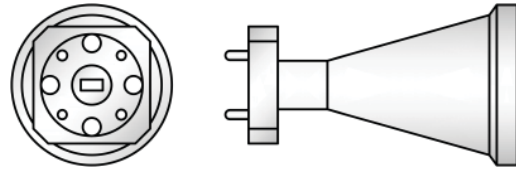
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WAVEGUIDE ANTENNAS

Gain Horns



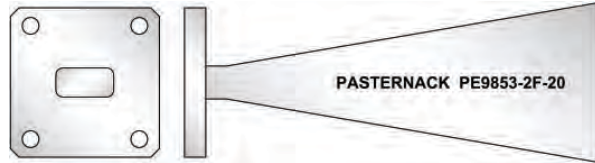
Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW												
WR-15	50 - 75	24	Round Cover	5A991	PE9881-24	\$1,294.23	See Web for Volume Pricing	1												
		10		EAR99	PE9850-10	\$801.61		2												
		15		EAR99	PE9850-15	\$862.12		3												
20	EAR99	PE9850-20	\$907.48	4																
WR-28	26.5 - 40	10	Square Cover	EAR99	PE9851-10	\$809.17		5												
		15		EAR99	PE9851A-15	\$870.25		6												
		20		EAR99	PE9851A-20	\$890.36		7												
10	EAR99	PE9852-10		\$801.61	8															
WR-34	22 - 33	15		Square Cover	EAR99	PE9852A-15		\$813.32	9											
		20			EAR99	PE9852-20		\$941.63	10											
		10			EAR99	PE9853-10		\$756.23	11											
WR-42	18 - 26.5	15			Square Cover	EAR99		PE9853-15	\$870.25	12										
		20				EAR99		PE9853-20	\$856.11	13										
		10				EAR99		PE9853A-20	\$856.11	14										
WR-51	15 - 22	10				Square Cover		EAR99	PE9854-10	\$763.37	15									
		15						EAR99	PE9854-15	\$795.63	16									
		20						EAR99	PE9854-20	\$840.71	17									
WR-62	12.4 - 18	10						Square Cover	EAR99	PE9855-10	\$763.37	18								
		15							EAR99	PE9855-15	\$809.17	19								
		20							EAR99	PE9855A-20	\$799.07	20								
WR-75	10 - 15	10							Square Cover	EAR99	PE9856-10	\$713.43	21							
		15								EAR99	PE9856-15	\$809.17	22							
		20								EAR99	PE9856-20	\$892.59	23							
WR-90	8.2 - 12.4	10								Square Cover	EAR99	PE9857-10	\$809.17	24						
		15									EAR99	PE9857-15	\$813.32	25						
		20									EAR99	PE9857-20	\$856.11	26						
WR-102	7 - 11	10									Square Cover	EAR99	PE9858-10	\$809.17	27					
		15										EAR99	PE9858-15	\$870.25	28					
		20										EAR99	PE9858A-20	\$890.36	29					
WR-112	7.05 - 10	10										Square Cover	EAR99	PE9859-10	\$756.23	30				
		15											EAR99	PE9859-15	\$805.59	31				
		20											EAR99	PE9859-20	\$856.11	32				
WR-137	5.85 - 8.2	10											CMR-137	EAR99	PE9860-10	\$880.38	33			
		15												EAR99	PE9860-15	\$946.53	34			
		20												EAR99	PE9860-20	\$955.96	35			
WR-159	4.9 - 7.05	10												CMR-159	EAR99	PE9861-10	\$856.11	36		
		15													EAR99	PE9861-15	\$1,017.30	37		
		20													EAR99	PE9861-20	\$1,058.64	38		
WR-187	3.95 - 5.85	15													CMR-187	EAR99	PE9862-15	\$1,106.91	39	
		20														EAR99	PE9862-20	\$1,526.86	40	
		10														EAR99	PE-W229AN001	\$972.53	41	
WR-229	3.3 - 4.9	15														CMR-229	EAR99	PEWAN1001	\$1,284.21	42
		20															EAR99	PE9863-10	\$1,134.45	43
		10					EAR99										PE9863-20	\$1,855.03	44	
WR-284	2.6 - 3.95	10					CMR-284										EAR99	PE9864-10	\$1,461.09	45
		15															EAR99	PE9864-15	\$2,137.53	46
		20															EAR99	PE9864-20	\$3,603.58	47

Gain Horns With WG To Coax Adapters



Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type - Connector	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-28	26.5 - 40	10	WR-28 - 2.92mm Female	EAR99	PE9850/2F-10	\$1,591.91		48
		15		EAR99	PE9850/2F-15	\$1,649.62		49
		20		EAR99	PE9850/2F-20	\$1,692.80		50

Gain Horns With WG To Coax Adapters



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

Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type - Connector	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-34	22 - 33	10	WR-34 - 2.92mm Female	EAR99	PE9851/2F-10	\$1,614.06	See Web for Volume Pricing	51
		15		EAR99	PE9851/2F-15	\$1,666.50		52
		20		EAR99	PE9851/2F-20	\$1,718.26		53
WR-42	18 - 26.5	10	WR-42 - 2.92mm Female	EAR99	PE9852/2F-10	\$1,353.13		54
		15		EAR99	PE9852/2F-15	\$1,411.36		55
		20		EAR99	PE9852/2F-20	\$1,441.39		56
WR-51	15 - 22	10	WR-51 - SMA Female	EAR99	PE9853/SF-10	\$1,249.36		57
		15		EAR99	PE9853/SF-15	\$1,470.92		58
		20		EAR99	PE9853/SF-20	\$1,500.85		59
WR-62	12.4 - 18	10	WR-62 - N Female	EAR99	PE9854/NF-10	\$1,072.22		60
		15		EAR99	PE9854/NF-15	\$1,159.41		61
		20		EAR99	PE9854/NF-20	\$1,192.23		62
		10	WR-62 - SMA Female	EAR99	PE9854/SF-10	\$1,104.82		63
		15		EAR99	PE9854/SF-15	\$1,148.57		64
WR-75	10 - 15	10	WR-75 - N Female	EAR99	PE9855/NF-10	\$1,197.26		65
		15		EAR99	PE9855/NF-15	\$1,197.26		66
		20		EAR99	PE9855/NF-20	\$1,249.36		67
		10	WR-75 - SMA Female	EAR99	PE9855/SF-10	\$1,093.06		68
		15		EAR99	PE9855/SF-15	\$1,142.78		69
WR-90	8.2 - 12.4	10	WR-90 - N Female	EAR99	PE9856/NF-10	\$1,186.84		70
		15		EAR99	PE9856/NF-15	\$1,102.63	71	
		20		EAR99	PE9856/NF-20	\$1,146.66	72	
		10	WR-90 - SMA Female	EAR99	PE9856/SF-10	\$1,228.52	73	
		15		EAR99	PE9856/SF-15	\$1,093.06	74	
WR-102	7 - 11	10	WR-102 - N Female	EAR99	PE9857/NF-10	\$1,145.16	75	
		15		EAR99	PE9857/NF-15	\$1,228.52	76	
		20		EAR99	PE9857/NF-20	\$1,220.24	77	
		10	WR-102 - SMA Female	EAR99	PE9857/SF-10	\$1,249.36	78	
		15		EAR99	PE9857/SF-15	\$1,301.46	79	
WR-112	7.05 - 10	10	WR-112 - N Female	EAR99	PE9858/NF-10	\$1,140.40	80	
		15		EAR99	PE9858/NF-15	\$1,140.40	81	
		20		EAR99	PE9858/NF-20	\$1,301.46	82	
		10	WR-112 - SMA Female	EAR99	PE9858/SF-10	\$1,236.55	83	
		15		EAR99	PE9858/SF-15	\$1,146.72	84	
WR-137	5.85 - 8.2	10	WR-137 - N Female	EAR99	PE9859/NF-10	\$1,176.42	85	
		15		EAR99	PE9859/NF-15	\$1,249.73	86	
		20		EAR99	PE9859/NF-20	\$1,093.06	87	
		10	WR-137 - SMA Female	EAR99	PE9859/SF-10	\$1,205.57	88	
		15		EAR99	PE9859/SF-15	\$1,249.73	89	
WR-159	4.9 - 7.05	10	WR-159 - N Female	EAR99	PE9860/NF-10	\$1,293.74	90	
		15		EAR99	PE9860/NF-15	\$1,281.79	91	
		20		EAR99	PE9860/NF-20	\$1,396.70	92	
		10	WR-159 - SMA Female	EAR99	PE9860/SF-10	\$1,293.74	93	
		15		EAR99	PE9860/SF-15	\$1,344.58	94	
WR-187	3.95 - 5.85	10	WR-187 - N Female	EAR99	PE9861/NF-10	\$1,396.70	95	
		15		EAR99	PE9861/NF-15	\$1,520.28	96	
		20		EAR99	PE9861/NF-20	\$1,582.80	97	
		10	WR-187 - SMA Female	EAR99	PE9861/SF-10	\$1,666.16	98	
		15		EAR99	PE9861/SF-15	\$1,503.25	99	
WR-229	3.3 - 4.9	10	WR-229 - N Female	EAR99	PE9862/NF-10	\$1,576.77	1	
		15		EAR99	PE9862/NF-15	\$1,614.06	2	
		20		EAR99	PE9862/NF-20	\$1,614.06	3	
		10	WR-229 - SMA Female	EAR99	PE9862/SF-10	\$1,301.46	4	
		15		EAR99	PE9862/SF-15	\$1,839.43	5	
WR-284	2.6 - 3.95	10	WR-284 - N Female	EAR99	PE9863/NF-10	\$1,881.67	6	
		15		EAR99	PE9863/NF-15	\$1,811.67	7	
		20		EAR99	PE9863/NF-20	\$1,645.32	8	
		10	WR-284 - SMA Female	EAR99	PE9863/SF-10	\$1,856.78	9	
		15		EAR99	PE9863/SF-15	\$1,853.72	10	
WR-284	2.6 - 3.95	10	WR-284 - SMA Female	EAR99	PE9863/SF-20	\$1,614.06	11	
		15		EAR99	PE9863/SF-15	\$1,690.63	12	
		20		EAR99	PE9863/SF-20	\$2,041.28	13	
WR-284	2.6 - 3.95	10	WR-284 - SMA Female	EAR99	PE9863/SF-10	\$2,039.08	14	
		15		EAR99	PE9863/SF-15	\$2,656.06	15	
		20		EAR99	PE9863/SF-20	\$2,291.36	16	

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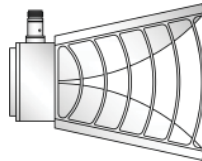
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Gain Horns With WG To Coax Adapters



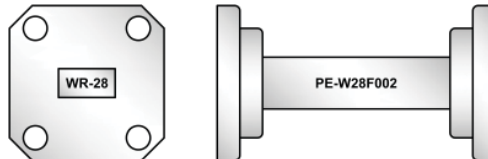
Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type - Connector	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-430	1.7 - 2.6	10	WR-430 - N Female	EAR99	PE9864/NF-10	\$2,740.97	See Web for Volume Pricing	17
		15		EAR99	PE9864/NF-15	\$3,386.39		18
		20		EAR99	PE9864/NF-20	\$4,896.36		19
		10	WR-430 - SMA Female	EAR99	PE9864/SF-10	\$2,697.74		20
		15		EAR99	PE9864/SF-15	\$3,386.39		21
		20		EAR99	PE9864/SF-20	\$4,927.62		22

Specialty Waveguide Antennas



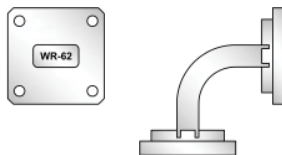
Waveguide Type	RF Frequency (GHz.)	Gain (dB)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
Broadband	1 - 18			EAR99	PE9887-11	\$3,398.96	See Web for Volume Pricing	23
				EAR99	PE9888-11	\$3,431.32		24
WR-15	50 - 75	42	Round Cover - UG-385/U	5A991	PE9881-42	\$2,177.41	See Web for Volume Pricing	25
		20		EAR99	PE9881A-20	\$1,043.01		26
	56.5 - 67			5A991	PE9881-34	\$1,494.64		27
		0		EAR99	PE-W15A001	\$3,917.71		28

WAVEGUIDE BANDPASS FILTERS



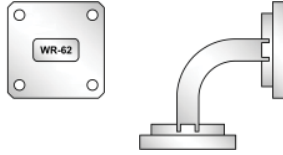
Waveguide Type	RF Frequency (GHz.)	Max VSWR	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-28	38 - 40	1.5:1	Square Cover	EAR99	PE-W28F002	\$364.70	\$350.11	\$335.52	\$320.94	29
	30 - 31	1.4:1		EAR99	PE-W28F001	\$375.76	\$360.73	\$345.70	\$330.67	30
WR-42	25.05 - 25.25	1.5:1		EAR99	PE-W42F003	\$368.10	\$353.38	\$338.65	\$323.93	31
	24.25 - 24.45	1.8:1		EAR99	PE-W42F002	\$351.87	\$337.80	\$323.72	\$309.65	32
		1.5:1		EAR99	PE-W42F004	\$368.10	\$353.38	\$338.65	\$323.93	33
	20.2 - 21.2	1.5:1		EAR99	PE-W42F001	\$368.10	\$353.38	\$338.65	\$323.93	34

WAVEGUIDE BENDS



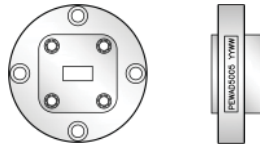
Waveguide Type	RF Frequency (GHz.)	Insertion Loss (dB)	Bend Plane	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	75 - 110	0.21	E-Bend	Round Cover UG-387/U-Mod	EAR99	PE-W10B001	\$468.28	\$449.55	\$430.82	\$412.09	35
			H-Bend		EAR99	PE-W10B002	\$468.28	\$449.55	\$430.82	\$412.09	36
WR-12	60 - 90		E-Bend	Round Cover UG-387/U	EAR99	PE-W12B001	\$394.53	\$378.75	\$362.97	\$347.19	37

WAVEGUIDE BENDS



Waveguide Type	RF Frequency (GHz.)	Insertion Loss (dB)	Bend Plane	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-12	60 - 90	0.21	H-Bend	Round Cover UG-387/U	EAR99	PE-W12B002	\$383.47	\$368.13	\$352.79	\$337.45	38
WR-15	50 - 75	0.17	E-Bend	Round Cover UG-385/U	EAR99	PE-W15B001	\$519.96	\$499.16	\$478.36	\$457.56	39
			H-Bend		EAR99	PE-W15B002	\$519.96	\$499.16	\$478.36	\$457.56	40
WR-19	40 - 60	0.18	E-Bend	Round Cover UG-383/U-Mod	EAR99	PE-W19B001	\$374.48	\$359.50	\$344.52	\$329.54	41
			H-Bend		EAR99	PE-W19B002	\$374.48	\$359.50	\$344.52	\$329.54	42
WR-22	33 - 50	0.16	E-Bend	Round Cover UG-383/U	EAR99	PE-W22B001	\$374.48	\$359.50	\$344.52	\$329.54	43
			H-Bend		EAR99	PE-W22B002	\$374.48	\$359.50	\$344.52	\$329.54	44
WR-28	26.5 - 40	0.28	E-Bend	Square Cover UG-599/U	EAR99	PE-W28B001	\$400.70	\$384.67	\$368.64	\$352.62	45
			H-Bend		EAR99	PE-W28B002	\$499.00	\$479.04	\$459.08	\$439.12	46
WR-42	18 - 26.5	0.1	E-Bend	Square Cover UG-595/U	EAR99	PE-W42B001A	\$400.70	\$384.67	\$368.64	\$352.62	47
			H-Bend		EAR99	PE-W42B002A	\$374.48	\$359.50	\$344.52	\$329.54	48
WR-51	15 - 22	0.09	E-Bend	UBR180	EAR99	PE-W51B001	\$364.70	\$350.11	\$335.52	\$320.94	49
			H-Bend		EAR99	PE-W51B002	\$364.70	\$350.11	\$335.52	\$320.94	50
WR-62	12.4 - 18	0.15	E-Bend	Square Cover UG-419/U	EAR99	PE-W62B001	\$405.54	\$389.32	\$373.10	\$356.88	51
			H-Bend		EAR99	PE-W62B002	\$405.54	\$389.32	\$373.10	\$356.88	52
		0.09	E-Bend		EAR99	PE-W62B003	\$364.70	\$350.11	\$335.52	\$320.94	53
			H-Bend		EAR99	PE-W62B004	\$390.23	\$374.62	\$359.01	\$343.40	54
WR-75	10 - 15	0.15	E-Bend	UBR120	EAR99	PE-W75B001	\$411.73	\$395.26	\$378.79	\$362.32	55
			H-Bend		EAR99	PE-W75B002	\$444.23	\$426.46	\$408.69	\$390.92	56
WR-90	8.2 - 12.4	0.15	E-Bend	Square Cover UG-39/U	EAR99	PE-W90B001	\$377.39	\$362.29	\$347.20	\$332.10	57
			H-Bend		EAR99	PE-W90B002	\$385.84	\$370.41	\$354.97	\$339.54	58
			CPR-90G	E-Bend	EAR99	PE-W90B003	\$333.44	\$320.10	\$306.76	\$293.43	59
				H-Bend	EAR99	PE-W90B004	\$333.44	\$320.10	\$306.76	\$293.43	60
WR-112	7.05 - 10	0.15	E-Bend	Square Cover UG-51/U	EAR99	PE-W112B001	\$547.93	\$526.01	\$504.10	\$482.18	61
			H-Bend		EAR99	PE-W112B002	\$471.66	\$452.79	\$433.93	\$415.06	62
WR-137	5.85 - 8.2	0.15	E-Bend	Round Cover UG-344/U	EAR99	PE-W137B001	\$416.80	\$400.13	\$383.46	\$366.78	63
			H-Bend		EAR99	PE-W137B002	\$416.80	\$400.13	\$383.46	\$366.78	64
			CPR-137G	E-Bend	EAR99	PE-W137B003	\$488.11	\$468.59	\$449.06	\$429.54	65
				H-Bend	EAR99	PE-W137B004	\$488.11	\$468.59	\$449.06	\$429.54	66

WAVEGUIDE BULKHEAD ADAPTERS



Frequency Range (GHz.)	Waveguide Size	Flange 1	Flange 2	Model No	1	2-4	5-9	10+	ROW
75.0 - 110.0	WR-10	Round Cover UG-387/U-Mod	Round Cover UG-387/U-Mod	PEWAD5000	\$930.85	\$893.62	\$856.38	\$819.15	67
60.0 - 90.0	WR-12	Round Cover UG-387/U	Round Cover UG-387/U	PEWAD5001	\$930.85	\$893.62	\$856.38	\$819.15	68
50.0 - 75.0	WR-15	Round Cover UG-385/U	Round Cover UG-385/U	PEWAD5002	\$930.85	\$893.62	\$856.38	\$819.15	69
40.0 - 60.0	WR-19	Round Cover UG-383/U-Mod	Round Cover UG-383/U-Mod	PEWAD5003	\$930.85	\$893.62	\$856.38	\$819.15	70
33.0 - 50.0	WR-22	Round Cover UG-383/U	Round Cover UG-383/U	PEWAD5007	\$850.98	\$816.94	\$782.90	\$748.86	71
			Round Cover UG-383/U	PEWAD5004	\$930.85	\$893.62	\$856.38	\$819.15	72
26.5 - 40.0	WR-28	Square Cover UG-599/U	Square Cover UG-599/U	PEWAD5008	\$743.29	\$713.56	\$683.83	\$654.10	73
			Square Cover UG-599/U	PEWAD5005	\$1,042.56	\$1,000.86	\$959.16	\$917.45	74
22.0 - 33.0	WR-34	Square Cover UG-1530/U	Square Cover UG-1530/U	PEWAD5009	\$757.20	\$726.91	\$696.62	\$666.34	75
18.0 - 26.5	WR-42	Square Cover UG-595/U	Square Cover UG-595/U	PEWAD5010	\$778.04	\$746.92	\$715.80	\$684.68	76
			Square Cover UG-595/U	PEWAD5006	\$1,042.56	\$1,000.86	\$959.16	\$917.45	77
15.0 - 22.0	WR-51	Square Cover	Square Cover	PEWAD5011	\$791.92	\$760.24	\$728.57	\$696.89	78
12.4 - 18.0	WR-62	Square Cover UG-1665/U	Square Cover UG-1665/U	PEWAD5012	\$826.65	\$793.58	\$760.52	\$727.45	79
10.0 - 15.0	WR-75	Square Cover	Square Cover	PEWAD5013	\$850.98	\$816.94	\$782.90	\$748.86	80
8.2 - 12.4	WR-90	Square Cover UG-39/U CPR-90G	Square Cover UG-39/U	PEWAD5014	\$882.24	\$846.95	\$811.66	\$776.37	81
			CPR-90G	PEWAD5015	\$882.24	\$846.95	\$811.66	\$776.37	82
7.05 - 10.0	WR-112	Square Cover UG-51/U CPR-112G	Square Cover UG-51/U	PEWAD5016	\$930.85	\$893.62	\$856.38	\$819.15	83
			CPR-112G	PEWAD5017	\$930.85	\$893.62	\$856.38	\$819.15	84



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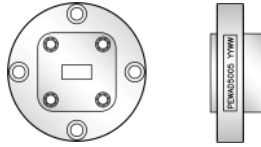


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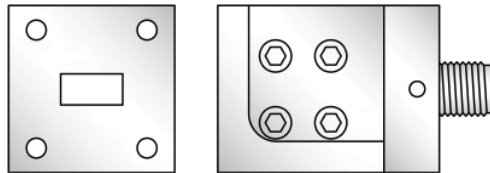
WAVEGUIDE BULKHEAD ADAPTERS



Frequency Range (GHz.)	Waveguide Size	Flange 1	Flange 2	Model No	1	2-4	5-9	10+	ROW
5.85 - 8.2	WR-137	Square Cover UG-344/U	Square Cover UG-344/U	PEWAD5018	\$979.48	\$940.30	\$901.12	\$861.94	85
		CPR-137G	CPR-137G	PEWAD5019	\$979.48	\$940.30	\$901.12	\$861.94	86

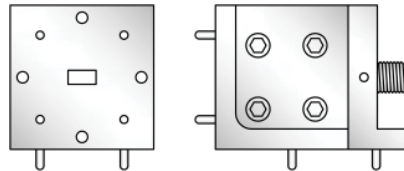
WAVEGUIDE CONVERTER MIXERS

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	\$3,371.18	\$3,168.91	\$3,000.35	\$2,865.50	87
33 - 50	DC - 18	15	7	WR-22 UG-383/U	SMA Female	EAR99	PE12D1004	\$3,800.23	\$3,572.22	\$3,382.20	\$3,230.20	88
40 - 60	DC - 18	15	7	WR-19 UG-383/U	SMA Female	EAR99	PE12D1003	\$3,938.15	\$3,701.86	\$3,504.95	\$3,347.43	89
50 - 75	DC - 18	15	8	WR-15 UG-385/U	SMA Female	EAR99	PE12D1002	\$4,106.70	\$3,860.30	\$3,654.96	\$3,490.70	90
60 - 90	DC - 18	15	9	WR-12 UG-387/U	SMA Female	EAR99	PE12D1001	\$4,229.30	\$3,975.54	\$3,764.08	\$3,594.91	91
75 - 110	DC - 18	15	9	WR-10 UG-387/U-Mod	SMA Female	EAR99	PE12D1000	\$4,535.77	\$4,263.62	\$4,036.84	\$3,855.40	92

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	\$3,784.91	\$3,557.82	\$3,368.57	\$3,217.17	93
33 - 50	DC - 18	15	7	WR-22 UG-383/U	SMA Female	EAR99	PE13U1004	\$4,321.23	\$4,061.96	\$3,845.89	\$3,673.05	94
40 - 60	DC - 18	15	7	WR-19 UG-383/U	SMA Female	EAR99	PE13U1003	\$4,443.82	\$4,177.19	\$3,955.00	\$3,777.25	95
50 - 75	DC - 18	15	8	WR-15 UG-385/U	SMA Female	EAR99	PE13U1002	\$4,597.06	\$4,321.24	\$4,091.38	\$3,907.50	96
60 - 90	DC - 18	15	9	WR-12 UG-387/U	SMA Female	EAR99	PE13U1001	\$4,765.62	\$4,479.68	\$4,241.40	\$4,050.78	97
75 - 110	DC - 18	15	9	WR-10 UG-387/U	SMA Female	EAR99	PE13U1000	\$5,087.41	\$4,782.17	\$4,527.79	\$4,324.30	98

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WAVEGUIDE COUPLERS

Broadwall



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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	1.4	1.2:1	10	30	Round Cover UG-387/U-Mod	EAR99	PE-W10CP001-10	\$2,344.50	\$2,250.72	\$2,156.94	\$2,063.16	1		
				10	30		EAR99	PE-W10CP003-10	\$2,467.90	\$2,369.18	\$2,270.47	\$2,171.75	2		
		1.1		20	30		EAR99	PE-W10CP001-20	\$2,344.50	\$2,250.72	\$2,156.94	\$2,063.16	3		
				20	30		EAR99	PE-W10CP003-20	\$2,467.90	\$2,369.18	\$2,270.47	\$2,171.75	4		
WR-12	60 - 90	1.4		1.2:1	10	30	Round Cover UG-387/U	EAR99	PE-W12CP001-10	\$2,366.04	\$2,271.40	\$2,176.76	\$2,082.12	5	
					10	30		EAR99	PE-W12CP003-10	\$2,490.57	\$2,390.95	\$2,291.32	\$2,191.70	6	
		1			20	30		EAR99	PE-W12CP001-20	\$2,366.04	\$2,271.40	\$2,176.76	\$2,082.12	7	
					20	30		EAR99	PE-W12CP003-20	\$2,394.78	\$2,298.99	\$2,203.20	\$2,107.41	8	
WR-15	50 - 75	1.4	1.2:1		10	30	Round Cover UG-385/U	EAR99	PE-W15CP001-10	\$2,230.25	\$2,141.04	\$2,051.83	\$1,962.62	9	
					10	30		EAR99	PE-W15CP003-10	\$2,230.25	\$2,141.04	\$2,051.83	\$1,962.62	10	
		1			20	30		EAR99	PE-W15CP001-20	\$2,339.93	\$2,246.33	\$2,152.74	\$2,059.14	11	
					20	30		EAR99	PE-W15CP003-20	\$2,339.93	\$2,246.33	\$2,152.74	\$2,059.14	12	
WR-19	40 - 60	1.4		1.2:1	10	30	Round Cover UG-383/U	EAR99	PE-W19CP001-10	\$2,170.83	\$2,084.00	\$1,997.16	\$1,910.33	13	
					10	30		EAR99	PE-W19CP003-10	\$2,330.79	\$2,237.56	\$2,144.33	\$2,051.10	14	
		0.8			20	30		EAR99	PE-W19CP001-20	\$2,170.83	\$2,084.00	\$1,997.16	\$1,910.33	15	
					20	30		EAR99	PE-W19CP003-20	\$2,285.09	\$2,193.69	\$2,102.28	\$2,010.88	16	
WR-22	33 - 50	1.2	1.2:1		10	30	Round Cover UG-383/U	EAR99	PE-W22CP001-10	\$2,230.25	\$2,141.04	\$2,051.83	\$1,962.62	17	
					10	30		EAR99	PE-W22CP003-10	\$2,230.25	\$2,141.04	\$2,051.83	\$1,962.62	18	
		0.8			20	30		EAR99	PE-W22CP001-20	\$2,230.25	\$2,141.04	\$2,051.83	\$1,962.62	19	
					20	30		EAR99	PE-W22CP003-20	\$2,319.47	\$2,226.69	\$2,133.91	\$2,041.13	20	
WR-28	26.5 - 40	1		1.2:1	10	30	Square Cover UG-599/U	EAR99	PE-W28CP002-10	\$2,157.13	\$2,070.84	\$1,984.56	\$1,898.27	21	
					10	30		EAR99	PE-W28CP003-10	\$2,243.42	\$2,153.68	\$2,063.95	\$1,974.21	22	
		0.6			20	30		EAR99	PE-W28CP002-20	\$2,157.13	\$2,070.84	\$1,984.56	\$1,898.27	23	
					20	30		EAR99	PE-W28CP003-20	\$2,200.28	\$2,112.27	\$2,024.26	\$1,936.25	24	
WR-34	22 - 33	0.35	1.05:1		10	35	Square Cover UG-1530/U	EAR99	PEWCP1005	\$1,451.87	\$1,393.80	\$1,335.72	\$1,277.65	25	
					10	35		EAR99	PEWCP1006	\$1,451.87	\$1,393.80	\$1,335.72	\$1,277.65	26	
		0.15			20	35		EAR99	PEWCP1007	\$1,451.87	\$1,393.80	\$1,335.72	\$1,277.65	27	
					30	35		EAR99	PE-W42CP002-10	\$2,157.13	\$2,070.84	\$1,984.56	\$1,898.27	28	
WR-42	18 - 26.5	1		1.2:1	10	30	Square Cover UG-595/U	EAR99	PE-W42CP003-10	\$2,243.42	\$2,153.68	\$2,063.95	\$1,974.21	29	
					10	30		EAR99	PE-W42CP002-20	\$2,157.13	\$2,070.84	\$1,984.56	\$1,898.27	30	
		0.6			20	30		EAR99	PE-W42CP003-20	\$2,243.42	\$2,153.68	\$2,063.95	\$1,974.21	31	
					20	30		EAR99	PEWCP1008	\$1,424.08	\$1,367.12	\$1,310.15	\$1,253.19	32	
WR-51	15 - 22	0.15	1.05:1		10	35	Square Cover UG-419/U	EAR99	PEWCP1009	\$1,424.08	\$1,367.12	\$1,310.15	\$1,253.19	33	
					10	35		EAR99	PEWCP1010	\$1,481.04	\$1,421.80	\$1,362.56	\$1,303.32	34	
					20	40		EAR99	PEWCP1011	\$1,271.24	\$1,220.39	\$1,169.54	\$1,118.69	35	
					20	40		EAR99	PEWCP1012	\$1,322.09	\$1,269.21	\$1,216.32	\$1,163.44	36	
WR-62	12.4 - 18			0.15	1.05:1	10	40	Square Cover UG-419/U	EAR99	PEWCP1013	\$1,322.09	\$1,269.21	\$1,216.32	\$1,163.44	37
						10	40		EAR99	PEWCP1014	\$1,292.08	\$1,240.40	\$1,188.71	\$1,137.03	38
						20	40		EAR99	PEWCP1015	\$1,292.08	\$1,240.40	\$1,188.71	\$1,137.03	39
						30	40		EAR99	PEWCP1016	\$1,343.77	\$1,290.02	\$1,236.27	\$1,182.52	40
WR-75	10 - 15	0.15	1.05:1			10	40	Square Cover UG-39/U	EAR99	PEWCP1017	\$1,488.27	\$1,428.74	\$1,369.21	\$1,309.68	41
						10	40		EAR99	PEWCP1020	\$1,437.96	\$1,380.44	\$1,322.92	\$1,265.40	42
						20	40		EAR99	PEWCP1018	\$1,431.03	\$1,373.79	\$1,316.55	\$1,259.31	43
						20	40		EAR99	PEWCP1021	\$1,437.96	\$1,380.44	\$1,322.92	\$1,265.40	44
WR-90	8.2 - 12.4			0.15	1.05:1	30	40	Square Cover UG-39/U	EAR99	PEWCP1019	\$1,488.27	\$1,428.74	\$1,369.21	\$1,309.68	45
						30	40		EAR99	PEWCP1022	\$1,437.96	\$1,380.44	\$1,322.92	\$1,265.40	46
						10	40		EAR99	PEWCP1023	\$1,319.88	\$1,267.08	\$1,214.29	\$1,161.49	47
						10	40		EAR99	PEWCP1026	\$1,368.51	\$1,313.77	\$1,259.03	\$1,204.29	48
WR-112	7.05 - 10	0.15	1.05:1			20	40	Square Cover UG-51/U	EAR99	PEWCP1024	\$1,319.88	\$1,267.08	\$1,214.29	\$1,161.49	49
						20	40		EAR99	PEWCP1027	\$1,368.51	\$1,313.77	\$1,259.03	\$1,204.29	50
						30	40		EAR99	PEWCP1025	\$1,319.88	\$1,267.08	\$1,214.29	\$1,161.49	51
						30	40		EAR99	PEWCP1028	\$1,368.51	\$1,313.77	\$1,259.03	\$1,204.29	52
WR-137	5.85 - 8.2			0.15	1.05:1	10	40	Round Cover UG-344/U	EAR99	PEWCP1029	\$1,396.28	\$1,340.43	\$1,284.58	\$1,228.73	53
						10	40		EAR99	PEWCP1032	\$1,444.92	\$1,387.12	\$1,329.33	\$1,271.53	54
						20	40		EAR99	PEWCP1030	\$1,396.28	\$1,340.43	\$1,284.58	\$1,228.73	55
						20	40		EAR99	PEWCP1033	\$1,444.92	\$1,387.12	\$1,329.33	\$1,271.53	56

Waveguides



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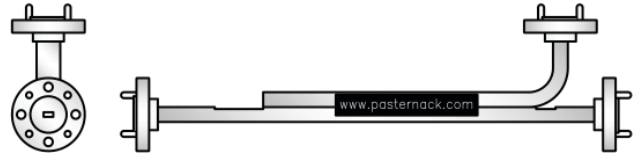


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WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Coupling (dB)	Directivity (dB)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-137	5.85 - 8.2	0.15	1.05:1	30	40	Round Cover UG-344/U	EAR99	PEWCP1031	\$1,396.28	\$1,340.43	\$1,284.58	\$1,228.73	57
				30	40	CPR-137G	EAR99	PEWCP1034	\$1,444.92	\$1,387.12	\$1,329.33	\$1,271.53	58

Crossguide*



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	PEWCP1035	\$977.51	\$938.41	\$899.31	\$860.21	59
				30	20		EAR99	PEWCP1036	\$977.51	\$938.41	\$899.31	\$860.21	60
				40	25		EAR99	PEWCP1037	\$977.51	\$938.41	\$899.31	\$860.21	61
				50	10		EAR99	PEWCP1038	\$977.51	\$938.41	\$899.31	\$860.21	62
WR-42	18 - 26.5	0.1	1.05:1	20	30	Square Cover UG-595/U	EAR99	PEWCP1039	\$779.03	\$747.87	\$716.71	\$685.55	63
				30	20		EAR99	PEWCP1040	\$810.19	\$777.78	\$745.37	\$712.97	64
				40	20		EAR99	PEWCP1041	\$779.03	\$747.87	\$716.71	\$685.55	65
				50	10		EAR99	PEWCP1042	\$810.19	\$777.78	\$745.37	\$712.97	66
WR-51	15 - 22	0.1	1.05:1	20	20	Square Cover UG-419/U	EAR99	PEWCP1043	\$1,203.26	\$1,155.13	\$1,107.00	\$1,058.87	67
				30	30		EAR99	PEWCP1044	\$1,203.26	\$1,155.13	\$1,107.00	\$1,058.87	68
				40	30		EAR99	PEWCP1045	\$1,203.26	\$1,155.13	\$1,107.00	\$1,058.87	69
				50	10		EAR99	PEWCP1046	\$1,203.26	\$1,155.13	\$1,107.00	\$1,058.87	70
WR-62	12.4 - 18	0.1	1.05:1	20	20	Square Cover UG-419/U	EAR99	PEWCP1047	\$779.03	\$747.87	\$716.71	\$685.55	71
				30	10		EAR99	PEWCP1048	\$779.03	\$747.87	\$716.71	\$685.55	72
				40	30		EAR99	PEWCP1049	\$779.03	\$747.87	\$716.71	\$685.55	73
				50	10		EAR99	PEWCP1050	\$779.03	\$747.87	\$716.71	\$685.55	74
WR-75	10 - 15	0.1	1.05:1	20	25	Square Cover UG-419/U	EAR99	PEWCP1051	\$783.98	\$752.62	\$721.26	\$689.90	75
				30	25		EAR99	PEWCP1052	\$783.98	\$752.62	\$721.26	\$689.90	76
				40	15		EAR99	PEWCP1053	\$783.98	\$752.62	\$721.26	\$689.90	77
				50	10		EAR99	PEWCP1054	\$783.98	\$752.62	\$721.26	\$689.90	78
WR-90	8.2 - 12.4	0.1	1.05:1	20	20	Square Cover UG-39/U	EAR99	PEWCP1055	\$764.13	\$733.56	\$703.00	\$672.43	79
				20	25	CPR-90G	EAR99	PEWCP1059	\$818.71	\$785.96	\$753.21	\$720.46	80
				30	20	Square Cover UG-39/U	EAR99	PEWCP1056	\$764.13	\$733.56	\$703.00	\$672.43	81
				30	20	CPR-90G	EAR99	PEWCP1060	\$818.71	\$785.96	\$753.21	\$720.46	82
				40	10	Square Cover UG-39/U	EAR99	PEWCP1057	\$794.71	\$762.92	\$731.13	\$699.34	83
				40	10	CPR-90G	EAR99	PEWCP1061	\$818.71	\$785.96	\$753.21	\$720.46	84
				50	10	Square Cover UG-39/U	EAR99	PEWCP1058	\$794.71	\$762.92	\$731.13	\$699.34	85
				50	10	CPR-90G	EAR99	PEWCP1062	\$851.46	\$817.40	\$783.34	\$749.28	86
WR-112	7.05 - 10	0.1	1.05:1	20	45	Square Cover UG-51/U	EAR99	PEWCP1063	\$878.97	\$843.81	\$808.65	\$773.49	87
				20	25	CPR-112G	EAR99	PEWCP1067	\$888.18	\$852.65	\$817.13	\$781.60	88
				30	25	Square Cover UG-51/U	EAR99	PEWCP1064	\$878.97	\$843.81	\$808.65	\$773.49	89
				30	25	CPR-112G	EAR99	PEWCP1068	\$888.18	\$852.65	\$817.13	\$781.60	90
				40	20	Square Cover UG-51/U	EAR99	PEWCP1065	\$878.97	\$843.81	\$808.65	\$773.49	91
				40	20	CPR-112G	EAR99	PEWCP1069	\$888.18	\$852.65	\$817.13	\$781.60	92
				50	10	Square Cover UG-51/U	EAR99	PEWCP1066	\$914.14	\$877.57	\$841.01	\$804.44	93
				50	10	CPR-112G	EAR99	PEWCP1070	\$923.72	\$886.77	\$849.82	\$812.87	94
WR-137	5.85 - 8.2	0.1	1.05:1	20	25	Round Cover UG-344/U	EAR99	PEWCP1071	\$893.14	\$857.41	\$821.69	\$785.96	95
				20	20	CPR-137G	EAR99	PEWCP1075	\$853.46	\$819.32	\$785.18	\$751.04	96
				30	20	Round Cover UG-344/U	EAR99	PEWCP1072	\$893.14	\$857.41	\$821.69	\$785.96	97

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

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

Waveguides

Crossguide*



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	30	20	CPR-137G	EAR99	PEWCP1076	\$853.46	\$819.32	\$785.18	\$751.04	98
				40	20	Round Cover UG-344/U	EAR99	PEWCP1073	\$893.14	\$857.41	\$821.69	\$785.96	99
				40	20	CPR-137G	EAR99	PEWCP1077	\$853.46	\$819.32	\$785.18	\$751.04	1
				50	10	Round Cover UG-344/U	EAR99	PEWCP1074	\$893.14	\$857.41	\$821.69	\$785.96	2
				50	10	CPR-137G	EAR99	PEWCP1078	\$853.46	\$819.32	\$785.18	\$751.04	3

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

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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Waveguides



Free Shipping Available via UPS Ground to USA & Canada

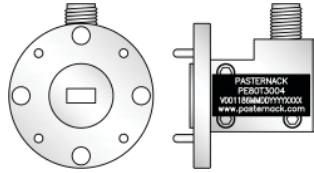


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WAVEGUIDE DETECTORS



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-10 UG-387/U	75 - 100	-900	20	SMA Female	EAR99	PE80T3000	\$3,340.54	\$3,140.11	\$2,973.08	\$2,839.46	1
WR-12 UG-387/U	60 - 90	-900		SMA Female	EAR99	PE80T3001	\$3,699.10	\$3,477.15	\$3,292.20	\$3,144.24	2
WR-15 UG-385/U	50 - 75	-700		SMA Female	EAR99	PE80T3002	\$3,663.68	\$3,443.86	\$3,260.68	\$3,114.13	3
WR-19 UG-383/U	40 - 60	-800		SMA Female	EAR99	PE80T3003	\$3,629.29	\$3,411.53	\$3,230.07	\$3,084.90	4
WR-22 UG-383/U	33 - 50	-800		SMA Female	EAR99	PE80T3004	\$3,560.52	\$3,346.89	\$3,168.86	\$3,026.44	5
WR-28 UG-599/U	26.5 - 40	-1,000		SMA Female	EAR99	PE80T3005	\$3,230.20	\$3,036.39	\$2,874.88	\$2,745.67	6

WAVEGUIDE DIRECT READ ATTEN.



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	\$5,198.54	\$4,990.60	\$4,782.66	\$4,574.72	7
WR-12	60 - 90		0.9	1.2:1	0.2	Round Cover UG-387/U	EAR99	PE-W12AT5001	\$5,406.48	\$5,190.22	\$4,973.96	\$4,757.70	8
WR-15	50 - 75		0.8	1.2:1	0.3	Round Cover UG-385/U	EAR99	PE-W15AT5001	\$5,198.54	\$4,990.60	\$4,782.66	\$4,574.72	9
WR-19	40 - 60		0.7	1.15:1	0.2	Round Cover UG-383/U-Mod	EAR99	PE-W19AT5001	\$5,198.54	\$4,990.60	\$4,782.66	\$4,574.72	10
WR-22	33 - 50		0.6	1.15:1	0.4	Round Cover UG-383/U	EAR99	PE-W22AT5001	\$5,198.54	\$4,990.60	\$4,782.66	\$4,574.72	11
WR-28	26.5 - 40		0.5	1.15:1	0.5	Square Cover UG-599/U	EAR99	PE-W28AT5001	\$5,198.54	\$4,990.60	\$4,782.66	\$4,574.72	12
WR-42	18 - 26.5		1	1.15:1	1	Square Cover UG-595/U	EAR99	PE-W42AT5001	\$5,406.48	\$5,190.22	\$4,973.96	\$4,757.70	13

WAVEGUIDE EMS



- Features:
- A: Absorptive
 - AR: Auto Reset
 - B: Break Before Make
 - F: Failsafe
 - D: Diode
 - GR: Global Reset
 - H: Hot Switches
 - I: Indicators
 - L: Latching
 - M: Manual Override
 - N: Normally Open
 - P: Pulse
 - R: Reflective
 - RS: Reset
 - S: Self Cut Off
 - T: Terminated
 - TTL: TTL Logic

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	26.5 - 40	B/L/S, I, M	0.15	55	28	EAR99	PEWGS6000	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	14
			B/L/TTL, S, I, M	0.15	55		EAR99	PEWGS6001	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	15
			B/L/S, I, M	0.15	55	12	EAR99	PEWGS6002	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	16
WR-42		18 - 26.5	B/L/TTL, S, I, M	0.15	55	28	EAR99	PEWGS6003	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	17
			B/L/S, I, M	0.15	60		EAR99	PEWGS6004	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	18
			B/L/TTL, S, I, M	0.15	60	12	EAR99	PEWGS6005	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	19
WR-62	12.4 - 18	B/L/S, I, M	0.15	60	28	EAR99	PEWGS6006	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	20	
		B/L/TTL, S, I, M	0.15	60		EAR99	PEWGS6007	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	21	
		B/L/S, I, M	0.1	60	12	EAR99	PEWGS6008	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	22	
WR-75	10 - 15	B/L/TTL, S, I, M	0.1	60	28	EAR99	PEWGS6009	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	23	
		B/L/S, I, M	0.1	60		EAR99	PEWGS6010	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	24	
		B/L/TTL, S, I, M	0.1	60	12	EAR99	PEWGS6011	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	25	
WR-75	10 - 15	B/L/S, I, M	0.05	75	28	EAR99	PEWGS6012	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	26	
		B/L/TTL, S, I, M	0.05	75		EAR99	PEWGS6013	\$3,803.30	\$3,575.10	\$3,384.94	\$3,232.81	27	
		B/L/S, I, M	0.05	75	12	EAR99	PEWGS6014	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	28	
			B/L/TTL, S, I, M	0.05	75		EAR99	PEWGS6015	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	29

WAVEGUIDE EMS



- Features:
- A: Absorptive
 - AR: Auto Reset
 - B: Break Before Make
 - F: Failsafe
 - D: Diode
 - GR: Global Reset
 - H: Hot Switches
 - I: Indicators
 - L: Latching
 - M: Manual Override
 - N: Normally Open
 - P: Pulse
 - R: Reflective
 - RS: Reset
 - S: Self Cut Off
 - T: Terminated
 - TTL: TTL Logic

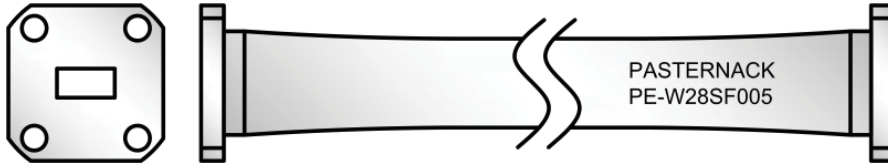
WG Type	Switch Type	RF Freq. (GHz.)	Actuator / Features	IL (dB)	Iso (dB)	DC Power (V)	ECCN	Model No	1	2-4	5-9	10+	ROW		
WR-90	SPDT	8.2 - 12.4	B/L/S, I, M	0.07	80	28	EAR99	PEWGS6016	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	30		
			B/L/TTL, S, I, M	0.07	80		EAR99	PEWGS6017	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	31		
			B/L/S, I, M	0.07	80	EAR99	PEWGS6018	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	32			
WR-112		SPDT	7.05 - 10	B/L/TTL, S, I, M	0.07	80	12	EAR99	PEWGS6019	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	33	
				B/L/S, I, M	0.05	80		EAR99	PEWGS6020	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	34	
				B/L/TTL, S, I, M	0.05	80	EAR99	PEWGS6021	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	35		
WR-137			SPDT	5.85 - 8.2	B/L/S, I, M	0.05	80	28	EAR99	PEWGS6022	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	36
					B/L/TTL, S, I, M	0.05	80		EAR99	PEWGS6023	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	37
					B/L/S, I, M	0.02	70	28	EAR99	PEWGS6024	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	38
					B/L/TTL, S, I, M	0.02	70		EAR99	PEWGS6025	\$3,490.70	\$3,281.26	\$3,106.72	\$2,967.10	39
					B/L/S, I, M	0.02	70	12	EAR99	PEWGS6026	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	40
					B/L/TTL, S, I, M	0.02	70		EAR99	PEWGS6027	\$3,386.50	\$3,183.31	\$3,013.99	\$2,878.53	41

ELECTROMECHANICAL RELAY SWITCHES

see page [184](#)

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	\$1,576.89	\$1,513.81	\$1,450.74	\$1,387.66	42
		0.49	1.2:1	12	Round Cover UG-383/U	EAR99	PE-W22SF005-12	\$2,493.85	\$2,394.10	\$2,294.34	\$2,194.59	43
		0.49	1.2:1	24	Round Cover UG-383/U	EAR99	PE-W22SF005-24	\$3,313.56	\$3,181.02	\$3,048.48	\$2,915.93	44
WR-28	26.5 - 40	0.49	1.2:1	12	Square Cover UG-599/U	EAR99	PE-W28SF005-12	\$1,285.13	\$1,233.72	\$1,182.32	\$1,130.91	45
		0.98	1.2:1	24	Square Cover UG-599/U	EAR99	PE-W28SF005-24	\$2,125.68	\$2,040.65	\$1,955.63	\$1,870.60	46
		1.47	1.2:1	36	Square Cover UG-599/U	EAR99	PE-W28SF005-36	\$2,966.24	\$2,847.59	\$2,728.94	\$2,610.29	47
WR-34	22 - 33	0.4	1.15:1	12	Square Cover UG-1530/U	EAR99	PE-W34SF005-12	\$1,285.13	\$1,233.72	\$1,182.32	\$1,130.91	48
		0.8	1.15:1	24	Square Cover UG-1530/U	EAR99	PE-W34SF005-24	\$2,125.68	\$2,040.65	\$1,955.63	\$1,870.60	49
		1.2	1.15:1	36	Square Cover UG-1530/U	EAR99	PE-W34SF005-36	\$2,966.24	\$2,847.59	\$2,728.94	\$2,610.29	50
WR-42	18 - 26.5	0.27	1.15:1	12	Square Cover UG-595/U	EAR99	PE-W42SF005-12	\$1,128.83	\$1,083.68	\$1,038.52	\$993.37	51
		0.54	1.15:1	24	Square Cover UG-595/U	EAR99	PE-W42SF005-24	\$1,833.92	\$1,760.56	\$1,687.21	\$1,613.85	52
		0.81	1.15:1	36	Square Cover UG-595/U	EAR99	PE-W42SF005-36	\$2,542.48	\$2,440.78	\$2,339.08	\$2,237.38	53
WR-51	15 - 22	0.18	1.1:1	12	Square Cover	EAR99	PE-W51SF005-12	\$1,139.25	\$1,093.68	\$1,048.11	\$1,002.54	54
		0.36	1.1:1	24	Square Cover	EAR99	PE-W51SF005-24	\$1,840.88	\$1,767.24	\$1,693.61	\$1,619.97	55
		0.54	1.1:1	36	Square Cover	EAR99	PE-W51SF005-36	\$2,549.44	\$2,447.46	\$2,345.48	\$2,243.51	56
WR-62	12.4 - 18	0.14	1.08:1	12	Square Cover UG-1665/U	EAR99	PE-W62SF005-12	\$1,083.68	\$1,040.33	\$996.99	\$953.64	57
		0.28	1.08:1	24	Square Cover UG-1665/U	EAR99	PE-W62SF005-24	\$1,625.52	\$1,560.50	\$1,495.48	\$1,430.46	58
		0.42	1.08:1	36	Square Cover UG-1665/U	EAR99	PE-W62SF005-36	\$2,260.32	\$2,169.91	\$2,079.49	\$1,989.08	59
WR-75	10 - 15	0.12	1.07:1	12	Square Cover	EAR99	PE-W75SF005-12	\$1,059.38	\$1,017.00	\$974.63	\$932.25	60
		0.24	1.07:1	24	Square Cover	EAR99	PE-W75SF005-24	\$1,712.22	\$1,643.73	\$1,575.24	\$1,506.75	61
		0.36	1.07:1	36	Square Cover	EAR99	PE-W75SF005-36	\$2,326.31	\$2,233.26	\$2,140.21	\$2,047.16	62
WR-90	8.2 - 12.4	0.9	1.07:1	12	CPR-90G	EAR99	PE-W90SF006-12	\$1,083.68	\$1,040.33	\$996.99	\$953.64	63
		0.18	1.07:1	24	CPR-90G	EAR99	PE-W90SF006-24	\$1,695.00	\$1,627.20	\$1,559.40	\$1,491.60	64
		0.27	1.07:1	36	CPR-90G	EAR99	PE-W90SF006-36	\$2,299.36	\$2,207.39	\$2,115.41	\$2,023.44	65
		0.09	1.07:1	12	Square Cover UG-39/U	EAR99	PE-W90SF005-12	\$1,083.68	\$1,040.33	\$996.99	\$953.64	66
		0.18	1.07:1	24	Square Cover UG-39/U	EAR99	PE-W90SF005-24	\$1,695.00	\$1,627.20	\$1,559.40	\$1,491.60	67
		0.27	1.07:1	36	Square Cover UG-39/U	EAR99	PE-W90SF005-36	\$2,299.36	\$2,207.39	\$2,115.41	\$2,023.44	68



Free Shipping Available via UPS Ground to USA & Canada



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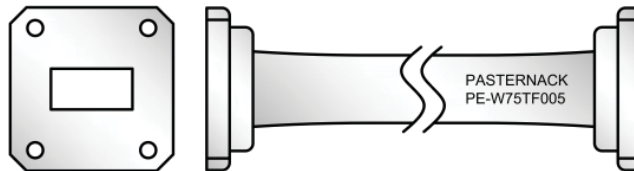
Same-Day Shipping, Even Custom Cable Assemblies

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-112	7.05 - 10	0.08	1.07:1	12	CPR-112G	EAR99	PE-W112SF006-12	\$1,174.00	\$1,127.04	\$1,080.08	\$1,033.12	69
		0.16	1.07:1	24	CPR-112G	EAR99	PE-W112SF006-24	\$1,847.81	\$1,773.90	\$1,699.99	\$1,626.07	70
		0.24	1.07:1	36	CPR-112G	EAR99	PE-W112SF006-36	\$2,528.60	\$2,427.46	\$2,326.31	\$2,225.17	71
		0.08	1.07:1	12	Square Cover UG-51/U	EAR99	PE-W112SF005-12	\$1,174.00	\$1,127.04	\$1,080.08	\$1,033.12	72
		0.16	1.07:1	24	Square Cover UG-51/U	EAR99	PE-W112SF005-24	\$1,847.81	\$1,773.90	\$1,699.99	\$1,626.07	73
		0.24	1.07:1	36	Square Cover UG-51/U	EAR99	PE-W112SF005-36	\$2,528.60	\$2,427.46	\$2,326.31	\$2,225.17	74
WR-137	5.85 - 8.2	0.06	1.07:1	12	CPR-137G	EAR99	PE-W137SF006-12	\$1,201.77	\$1,153.70	\$1,105.63	\$1,057.56	75
		0.12	1.07:1	24	CPR-137G	EAR99	PE-W137SF006-24	\$2,031.90	\$1,950.62	\$1,869.35	\$1,788.07	76
		0.18	1.07:1	36	CPR-137G	EAR99	PE-W137SF006-36	\$2,799.52	\$2,687.54	\$2,575.56	\$2,463.58	77
		0.06	1.07:1	12	Round Cover UG-344/U	EAR99	PE-W137SF005-12	\$1,305.97	\$1,253.73	\$1,201.49	\$1,149.25	78
		0.12	1.07:1	24	Round Cover UG-344/U	EAR99	PE-W137SF005-24	\$2,077.05	\$1,993.97	\$1,910.89	\$1,827.80	79
		0.18	1.07:1	36	Round Cover UG-344/U	EAR99	PE-W137SF005-36	\$2,848.13	\$2,734.20	\$2,620.28	\$2,506.35	80

Twistable

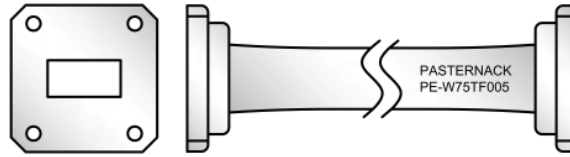


Waveguide Type	RF Frequency (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-22	33 - 50	0.6	1.3:1	6	Round Cover UG-383/U	EAR99	PE-W22TF005-6	\$791.92	\$760.24	\$728.57	\$696.89	81
		0.6	1.3:1	12	Round Cover UG-383/U	EAR99	PE-W22TF005-12	\$805.81	\$773.58	\$741.35	\$709.11	82
		0.6	1.3:1	24	Round Cover UG-383/U	EAR99	PE-W22TF005-24	\$847.49	\$813.59	\$779.69	\$745.79	83
WR-28	26.5 - 40	0.6	1.3:1	12	Square Cover UG-599/U	EAR99	PE-W28TF005-12	\$487.66	\$468.15	\$448.65	\$429.14	84
		1.2	1.3:1	24	Square Cover UG-599/U	EAR99	PE-W28TF005-24	\$527.75	\$506.64	\$485.53	\$464.42	85
		1.8	1.3:1	36	Square Cover UG-599/U	EAR99	PE-W28TF005-36	\$549.08	\$527.12	\$505.15	\$483.19	86
WR-34	22 - 33	0.5	1.22:1	12	Square Cover UG-1530/U	EAR99	PE-W34TF005-12	\$485.08	\$465.68	\$446.27	\$426.87	87
		1	1.22:1	24	Square Cover UG-1530/U	EAR99	PE-W34TF005-24	\$510.23	\$489.82	\$469.41	\$449.00	88
		1.5	1.22:1	36	Square Cover UG-1530/U	EAR99	PE-W34TF005-36	\$546.16	\$524.31	\$502.47	\$480.62	89
WR-42	18 - 26.5	0.35	1.3:1	12	Square Cover UG-595/U	EAR99	PE-W42TF005-12	\$423.99	\$407.03	\$390.07	\$373.11	90
		0.7	1.3:1	24	Square Cover UG-595/U	EAR99	PE-W42TF005-24	\$445.55	\$427.73	\$409.91	\$392.08	91
		1.05	1.35:1	36	Square Cover UG-595/U	EAR99	PE-W42TF005-36	\$484.06	\$464.70	\$445.34	\$425.97	92
WR-51	15 - 22	0.55	1.15:1	12	Square Cover	EAR99	PE-W51TF005-12	\$474.30	\$455.33	\$436.36	\$417.38	93
		1.1	1.15:1	24	Square Cover	EAR99	PE-W51TF005-24	\$493.21	\$473.48	\$453.75	\$434.02	94
		1.65	1.15:1	36	Square Cover	EAR99	PE-W51TF005-36	\$521.00	\$500.16	\$479.32	\$458.48	95
WR-62	12.4 - 18	0.28	1.1:1	12	Square Cover UG-1665/U	EAR99	PE-W62TF005-12	\$510.23	\$489.82	\$469.41	\$449.00	96
		0.56	1.1:1	24	Square Cover UG-1665/U	EAR99	PE-W62TF005-24	\$560.54	\$538.12	\$515.70	\$493.28	97
		0.84	1.1:1	36	Square Cover UG-1665/U	EAR99	PE-W62TF005-36	\$610.84	\$586.41	\$561.97	\$537.54	98
WR-75	10 - 15	0.18	1.1:1	12	Square Cover	EAR99	PE-W75TF005-12	\$541.84	\$520.17	\$498.49	\$476.82	99
		0.36	1.1:1	24	Square Cover	EAR99	PE-W75TF005-24	\$567.72	\$545.01	\$522.30	\$499.59	1
		0.54	1.1:1	36	Square Cover	EAR99	PE-W75TF005-36	\$628.80	\$603.65	\$578.50	\$553.34	2
WR-90	8.2 - 12.4	0.15	1.07:1	12	CPR-90G	EAR99	PE-W90TF006-12	\$493.21	\$473.48	\$453.75	\$434.02	3
		0.3	1.07:1	24	CPR-90G	EAR99	PE-W90TF006-24	\$582.10	\$558.82	\$535.53	\$512.25	4
		0.45	1.07:1	36	CPR-90G	EAR99	PE-W90TF006-36	\$632.16	\$606.87	\$581.59	\$556.30	5
		0.15	1.1:1	12	Square Cover UG-39/U	EAR99	PE-W90TF005-12	\$510.23	\$489.82	\$469.41	\$449.00	6
		0.36	1.1:1	24	Square Cover UG-39/U	EAR99	PE-W90TF005-24	\$582.10	\$558.82	\$535.53	\$512.25	7
		0.45	1.1:1	36	Square Cover UG-39/U	EAR99	PE-W90TF005-36	\$657.44	\$631.14	\$604.84	\$578.55	8
WR-112	7.05 - 10	0.12	1.07:1	12	CPR-112G	EAR99	PE-W112TF006-12	\$582.10	\$558.82	\$535.53	\$512.25	9
		0.24	1.07:1	24	CPR-112G	EAR99	PE-W112TF006-24	\$671.89	\$645.01	\$618.14	\$591.26	10
		0.36	1.07:1	36	CPR-112G	EAR99	PE-W112TF006-36	\$701.61	\$673.55	\$645.48	\$617.42	11
		0.12	1.3:1	12	Square Cover UG-51/U	EAR99	PE-W112TF005-12	\$582.10	\$558.82	\$535.53	\$512.25	12
		0.24	1.07:1	24	Square Cover UG-51/U	EAR99	PE-W112TF005-24	\$657.44	\$631.14	\$604.84	\$578.55	13
		0.36	1.07:1	36	Square Cover UG-51/U	EAR99	PE-W112TF005-36	\$701.61	\$673.55	\$645.48	\$617.42	14
WR-137	5.85 - 8.2	0.07	1.05:1	12	CPR-137G	EAR99	PE-W137TF006-12	\$560.54	\$538.12	\$515.70	\$493.28	15
		0.14	1.05:1	24	CPR-137G	EAR99	PE-W137TF006-24	\$657.44	\$631.14	\$604.84	\$578.55	16
		0.21	1.05:1	36	CPR-137G	EAR99	PE-W137TF006-36	\$751.36	\$721.31	\$691.25	\$661.20	17

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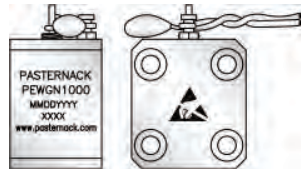
Waveguides

Twistable



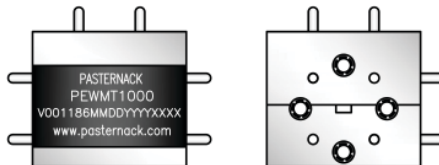
Waveguide Type	RF Frequency (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-137	5.85 - 8.2	0.07	1.05:1	12	Round Cover UG-344/U	EAR99	PE-W137TF005-12	\$632.16	\$606.87	\$581.59	\$556.30	18
		0.14	1.05:1	24	Round Cover UG-344/U	EAR99	PE-W137TF005-24	\$722.45	\$693.55	\$664.65	\$635.76	19
		0.18	1.05:1	36	Round Cover UG-344/U	EAR99	PE-W137TF005-36	\$812.76	\$780.25	\$747.74	\$715.23	20

WAVEGUIDE GUNN OSCILLATORS



WG Type	Center Freq. (GHz.)	Tuning Range (GHz.)	Freq. Stability (MHz/deg C)	Phase Noise (dBc/Hz)	Output Power (dBm)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-28	35	3	-0.4	-95	10	Square Cover UG-599/U	EAR99	PEWGN1000	\$329.96	\$310.16	\$293.66	\$280.47	21
WR-42	24.125	1,000 MHz	-0.2	-98	10	Square Cover UG-595/U	EAR99	PEWGN1001	\$295.23	\$277.52	\$262.75	\$250.95	22

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	\$2,480.97	\$2,381.73	\$2,282.49	\$2,183.25	23
WR-12	60 - 90	Round Cover UG-387/U			EAR99	PEWMT1001	\$2,506.48	\$2,406.22	\$2,305.96	\$2,205.70	24
WR-15	50 - 75	Round Cover UG-385/U			EAR99	PEWMT1002	\$2,377.47	\$2,282.37	\$2,187.27	\$2,092.17	25
WR-19	40 - 60	Round Cover UG-383/U-Mod	0.8	25	EAR99	PEWMT1003	\$2,144.26	\$2,058.49	\$1,972.72	\$1,886.95	26
WR-22	33 - 50	Round Cover UG-383/U	0.7		EAR99	PEWMT1004	\$2,144.26	\$2,058.49	\$1,972.72	\$1,886.95	27
WR-28	26.5 - 40	Square Cover UG-599/U	0.5		EAR99	PEWMT1005	\$2,042.54	\$1,960.84	\$1,879.14	\$1,797.44	28
WR-42	18 - 26.5	Square Cover UG-595/U		EAR99	PEWMT1006	\$2,002.49	\$1,922.39	\$1,842.29	\$1,762.19	29	

PasterFact™:
Satellites travel at 18,000 miles per hour.
That means in a given day, satellites can travel the entire circumference of the Earth about 14 times.



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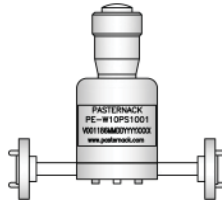


Technical
Support
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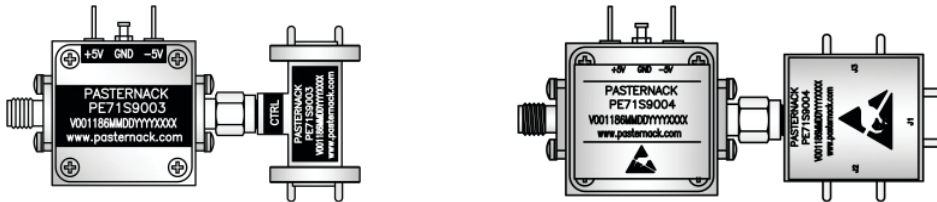
Same-Day Shipping,
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Cable Assemblies

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	\$2,091.09	\$2,007.45	\$1,923.80	\$1,840.16	30
WR-12	60 - 90	0 - 180°	0.7	1	3	Round Cover UG-387/U	EAR99	PE-W12PS1001	\$2,091.09	\$2,007.45	\$1,923.80	\$1,840.16	31
WR-15	50 - 75	0 - 180°	0.8	1	3	Round Cover UG-385/U	EAR99	PE-W15PS1001	\$2,091.09	\$2,007.45	\$1,923.80	\$1,840.16	32
WR-19	40 - 60	0 - 180°	1	1	3	Round Cover UG-383/U-Mod	EAR99	PE-W19PS1001	\$2,091.09	\$2,007.45	\$1,923.80	\$1,840.16	33
WR-22	33 - 50	0 - 180°	1	1	4	Round Cover UG-383/U	EAR99	PE-W22PS1001	\$2,091.09	\$2,007.45	\$1,923.80	\$1,840.16	34
WR-28	26.5 - 40	0 - 180°	1	1	4	Square Cover UG-599/U	EAR99	PE-W28PS1001	\$2,132.92	\$2,047.60	\$1,962.29	\$1,876.97	35
WR-42	18 - 26.5	0 - 180°	1.5	1	4	Square Cover UG-595/U	EAR99	PE-W42PS1001	\$2,091.09	\$2,007.45	\$1,923.80	\$1,840.16	36

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 SPDT/ Reflective	75 - 110	5.5	20	300	Round Cover UG-387/U	EAR99	PE71S9003	\$8,336.00	\$7,835.84	\$7,419.04	\$7,085.60	37
			7	20	300	Round Cover UG-387/U	EAR99	PE71S9004	\$9,899.00	\$9,305.06	\$8,810.11	\$8,414.15	38
WR-12	SPST/ Reflective SPDT/ Reflective	60 - 90	4.5	20	300	Round Cover UG-387/U	EAR99	PE71S9001	\$7,640.99	\$7,182.53	\$6,800.48	\$6,494.84	39
			6	20	300	Round Cover UG-387/U	EAR99	PE71S9002	\$9,031.02	\$8,489.16	\$8,037.61	\$7,676.37	40

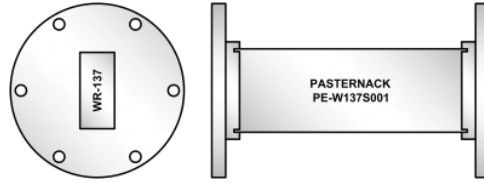
PIN DIODE SWITCHES, see page [190](#)

WAVEGUIDE POWER AMPLIFIERS



Waveguide Type	RF Frequency (GHz.)	Min Gain (dB)	P _{sat} (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	\$10,766.99	\$10,120.97	\$9,582.62	\$9,151.94	41
	80.5 - 86.5	20	19	Round Cover UG-387/U	EAR99	PE15A4024	\$11,201.50	\$10,529.41	\$9,969.34	\$9,521.28	42

WAVEGUIDE SECTIONS



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

WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-10	75 - 110			3	Round Cover UG-387/U-Mod	EAR99	PE-W10S001-3	\$468.28		43
				6		EAR99	PE-W10S001-6	\$472.37		44
WR-12	60 - 90	0.82		12	Round Cover UG-387/U	EAR99	PE-W12S001-12	\$488.44		45
		0.25		3		EAR99	PE-W12S001-3	\$359.02		46
		0.44		6		EAR99	PE-W12S001-6	\$406.38		47
				9		EAR99	PE-W12S001-9	\$470.38		48
WR-15	50 - 75	0.64		12	Round Cover UG-385/U	EAR99	PE-W15S001-12	\$543.03		49
		0.2		3		EAR99	PE-W15S001-3	\$383.74		50
		0.34		6		EAR99	PE-W15S001-6	\$419.94		51
		0.49		9		EAR99	PE-W15S001-9	\$459.92		52
WR-19	40 - 60	0.44		12	Round Cover UG-383/U-Mod	EAR99	PE-W19S001-12	\$522.64		53
		0.15		3		EAR99	PE-W19S001-3	\$356.31		54
		0.25		6		EAR99	PE-W19S001-6	\$404.18		55
		0.34		9		EAR99	PE-W19S001-9	\$459.92		56
WR-22	33 - 50	0.36	1.06:1	12	Round Cover UG-383/U	EAR99	PE-W22S001-12	\$505.22		57
		0.13		3		EAR99	PE-W22S001-3	\$352.94		58
		0.21		6		EAR99	PE-W22S001-6	\$371.22		59
		0.29		9		EAR99	PE-W22S001-9	\$420.07		60
WR-28	26.5 - 40	0.28		12	Square Cover UG-599/U	EAR99	PE-W28S001-12	\$524.92		61
		0.11		3		EAR99	PE-W28S001-3	\$363.03		62
		0.17		6		EAR99	PE-W28S001-6	\$405.46		63
		0.22		9		EAR99	PE-W28S001-9	\$435.54		64
WR-42	18 - 26.5	0.12		12	Square Cover UG-595/U	EAR99	PE-W42S001-12	\$524.92		65
		0.15		6		EAR99	PE-W42S001A-6	\$365.40		66
		0.08		9		EAR99	PE-W42S001A-9	\$407.04		67
		0.13		3		EAR99	PE-W42S002-3	\$379.85		68
WR-51	15 - 22	0.07		12	UBR180	EAR99	PE-W51S001-12	\$495.97		69
		0.09		3		EAR99	PE-W51S001-3	\$376.17		70
				6		EAR99	PE-W51S001-6	\$365.40		71
		0.11		9		EAR99	PE-W51S001-9	\$394.02		72
WR-62	12.4 - 18	0.08		12	Square Cover UG-419/U	EAR99	PE-W62S002-12	\$571.02		73
		0.1		6		EAR99	PE-W62S002-6	\$450.15		74
				9		EAR99	PE-W62S002-9	\$504.33		75
				12		EAR99	PE-W62S001-12	\$332.78		76
WR-75	10 - 15			3	UBR120	EAR99	PE-W62S001-3	\$312.60		77
				6		EAR99	PE-W62S001-6	\$319.34		78
				9		EAR99	PE-W62S001-9	\$326.06		79
				12		EAR99	PE-W75S001-12	\$294.75		80
WR-90	8.2 - 12.4			3	Square Cover UG-39/U	EAR99	PE-W75S001-3	\$302.53		81
				6		EAR99	PE-W75S001-6	\$312.60		82
				9		EAR99	PE-W75S001-9	\$319.34		83
				12		EAR99	PE-W90S001-12	\$249.52		84
WR-112	7.05 - 10			3	CPR-90G	EAR99	PE-W90S001-3	\$205.05		85
				6		EAR99	PE-W90S001-6	\$208.40		86
				9		EAR99	PE-W90S001-9	\$238.66		87
				12		EAR99	PE-W90S002-12	\$309.62		88
WR-137	5.85 - 8.2			3	Square Cover UG-51/U	EAR99	PE-W90S002-3	\$276.87		89
				6		EAR99	PE-W90S002-6	\$303.14		90
				9		EAR99	PE-W90S002-9	\$297.71		91
				12		EAR99	PE-W112S001-12	\$321.53		92
WR-22	33 - 50			3	Round Cover UG-344/U	EAR99	PE-W112S001-3	\$315.97		93
				6		EAR99	PE-W112S001-6	\$303.68		94
				9		EAR99	PE-W112S001-9	\$352.94		95
				12		EAR99	PE-W137S001-12	\$383.58		96
WR-28	26.5 - 40			3	CPR-137G	EAR99	PE-W137S001-3	\$337.18		97
				6		EAR99	PE-W137S001-6	\$339.39		98
				9		EAR99	PE-W137S001-9	\$371.21		99
				12		EAR99	PE-W137S002-12	\$400.01		1
WR-34	20 - 33			3	Square Cover UG-383/U	EAR99	PE-W137S002-3	\$336.14		2
				6		EAR99	PE-W137S002-6	\$363.03		3
				9		EAR99	PE-W137S002-9	\$349.55		4
				12		EAR99	PEWSP1000	\$590.48		5
				4	Square Cover UG-599/U	EAR99	PEWSP1001	\$521.00		6
					Square Cover UG-1530/U	EAR99	PEWSP1002	\$538.38		7

See Web for Volume Pricing

Waveguides



Free Shipping Available via UPS Ground to USA & Canada

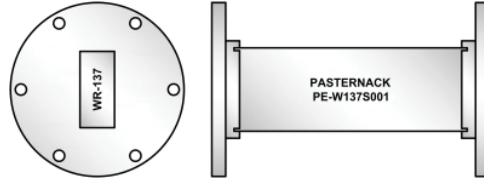


Technical Support (866) 727-8376



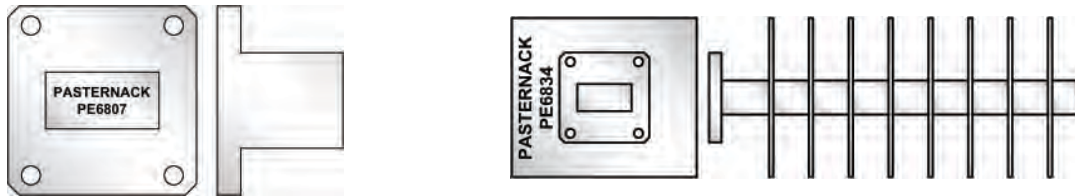
Same-Day Shipping, Even Custom Cable Assemblies

WAVEGUIDE SECTIONS



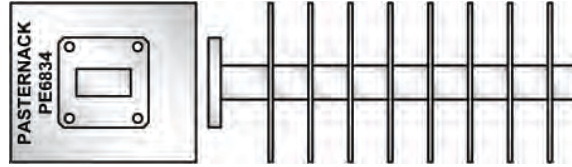
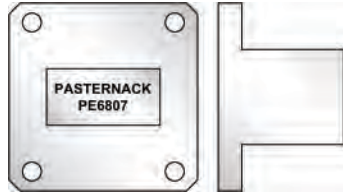
WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Length (in)	Flange Type	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-42	18 - 26.5			4	Square Cover UG-595/U	EAR99	PEWSP1003	\$521.00	See Web for Volume Pricing	8
WR-51	15 - 22				Square Cover	EAR99	PEWSP1004	\$555.75		9
WR-62	12.4 - 18				Square Cover UG-419/U	EAR99	PEWSP1005	\$527.96		10
WR-75	10 - 15				Square Cover	EAR99	PEWSP1006	\$538.38		11
WR-90	8.2 - 12.4				Square Cover UG-39/U	EAR99	PEWSP1007	\$555.75		12
					CPR-90G	EAR99	PEWSP1008	\$562.68		13
WR-112	7.05 - 10				Square Cover UG-51/U	EAR99	PEWSP1009	\$573.10		14
					CPR-112G	EAR99	PEWSP1010	\$576.59		15
WR-137	5.85 - 8.2				Round Cover UG-344/U	EAR99	PEWSP1011	\$597.43		16
					CPR-137G	EAR99	PEWSP1012	\$583.52		17

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	1.25:1	2	Round Cover UG-387/U-Mod	EAR99	PE-W10TR1001	\$500.59	See Web for Volume Pricing	18
WR-12	60 - 90	0.6	1.2:1		Round Cover UG-387/U	EAR99	PE-W12TR1001	\$500.59		19
WR-15	50 - 75	1	1.2:1		Round Cover UG-385/U	EAR99	PE-W15TR1001	\$500.59		20
WR-19	40 - 60	2	1.09:1		Round Cover UG-383/U-Mod	EAR99	PE-W19TR1001	\$467.84		21
WR-22	33 - 50	4	1.07:1		Round Cover UG-383/U	EAR99	PE-W22TR1001	\$467.84		22
WR-28	26.5 - 40	0.5	1.3:1	1	Square Cover UG-599/U	EAR99	PE6800	\$398.15	23	
		0.5	1.05:1	2	Square Cover	EAR99	PE6809	\$784.63	24	
		0.5	1.02:1		Square Cover UG-599/U	EAR99	PEWTR1000	\$632.16	25	
		5	1.07:1	2	Square Cover UG-599/U	EAR99	PE-W28TR1001	\$500.59	26	
		40	1.07:1	3	Square Cover	EAR99	PE6818	\$874.78	27	
WR-34	22 - 33	75	1.2:1	4	Square Cover	EAR99	PE6200	\$795.43	28	
		0.5	1.25:1	1	Square Cover	EAR99	PE6801	\$289.62	29	
		0.5	1.05:1	3	Square Cover	EAR99	PE6810	\$754.44	30	
		1	1.25:1		Square Cover UG-1530/U	EAR99	PEWTR1001	\$583.52	31	
		40	1.07:1	4	Square Cover	EAR99	PE6819	\$1,224.17	32	
WR-42	18 - 26.5	75	1.1:1	4	Square Cover	EAR99	PE6828	\$1,141.52	33	
		0.5	1.25:1	1	Square Cover UG-597/U	EAR99	PE6802	\$388.80	34	
		0.5	1.05:1	3	Square Cover	EAR99	PE6811	\$863.82	35	
		1	1.02:1		Square Cover UG-595/U	EAR99	PEWTR1002	\$548.80	36	
		6	1.08:1	3	Square Cover UG-595/U	EAR99	PE-W42TR1001	\$500.59	37	
WR-51	15 - 18	50	1.07:1	4	Square Cover	EAR99	PE6820	\$856.11	38	
		100	1.1:1	4	Square Cover	EAR99	PE6829	\$879.63	39	
		1	1.2:1	1	Square Cover	EAR99	PE6803	\$356.69	40	
		1	1.05:1	3	Square Cover	EAR99	PE6812	\$955.07	41	
		1	1.02:1		Square Cover	EAR99	PEWTR1003	\$569.64	42	
WR-62	12.4 - 18	55	1.07:1	4	Square Cover	EAR99	PE6821	\$856.11	43	
		100	1.1:1	4	Square Cover	EAR99	PE6830	\$1,187.18	44	
		1.5	1.05:1		Square Cover	EAR99	PE6201	\$946.28	45	
		1.5	1.02:1		Square Cover UG-419/U	EAR99	PEWTR1004	\$534.89	46	
		2	1.2:1	1	Square Cover	EAR99	PE6804	\$380.99	47	
WR-62	12.4 - 18	60	1.07:1	4	Square Cover	EAR99	PE6836	\$803.06	48	
		175	1.1:1	4	Square Cover	EAR99	PE6831	\$1,141.52	49	

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-75	10 - 15	2	1.2:1	1	Square Cover	EAR99	PE6805	\$597.25	See Web for Volume Pricing	50
		2	1.05:1	4	Square Cover	EAR99	PE6814	\$741.97		51
		2.5	1.02:1		Square Cover	EAR99	PEWTR1005	\$576.06		52
		75	1.07:1	5	Square Cover	EAR99	PE6823	\$742.74		53
		175	1.1:1	6	Square Cover	EAR99	PE6832	\$1,244.62		54
WR-90	8.2 - 12.4	2	1.2:1	1	Square Cover UG-135/U	EAR99	PE6806	\$445.23		55
		2	1.05:1	4	Square Cover	EAR99	PE6815	\$741.97		56
		4	1.02:1		Square Cover UG-39/U	EAR99	PEWTR1006	\$527.96		57
		4	1.02:1		CPR-90G	EAR99	PEWTR1007	\$538.38		58
		90	1.07:1	6	Square Cover	EAR99	PE6824	\$1,068.78		59
		200	1.1:1		Square Cover	EAR99	PE6833	\$1,417.68		60
WR-102	7 - 11	2	1.2:1	1	Square Cover	EAR99	PE6807	\$408.11	61	
		2	1.05:1	4	Square Cover	EAR99	PE6816	\$713.43	62	
		300	1.1:1	7	Square Cover	EAR99	PE6834	\$1,479.33	63	
WR-112	7.05 - 10	2	1.2:1	1	Square Cover	EAR99	PE6808	\$428.10	64	
		2	1.05:1	5	Square Cover	EAR99	PE6817	\$713.43	65	
		5	1.02:1		Square Cover UG-51/U	EAR99	PEWTR1008	\$562.68	66	
		5	1.02:1		CPR-112G	EAR99	PEWTR1009	\$609.51	67	
		100	1.07:1	7	Square Cover	EAR99	PE6826	\$998.89	68	
		300	1.1:1		Square Cover	EAR99	PE6835	\$1,978.76	69	
WR-137	5.85 - 8.2	6	1.02:1		Round Cover UG-344/U	EAR99	PEWTR1010	\$593.94	70	
		6	1.02:1		CPR-137G	EAR99	PEWTR1011	\$597.41	71	

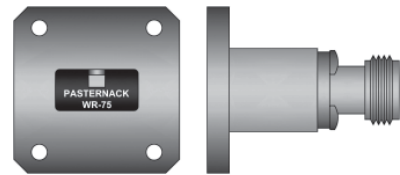
WAVEGUIDE TO COAX ADAPTERS



SMA Male



N Female



N Female

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	1.9:1	Round Cover UG-387/U-Mod	1.0mm Female	EAR99	PE-W10CA001	\$5,210.00	See Web for Volume Pricing	72
					1.0mm Male	EAR99	PE-W10CA002	\$5,210.00		73
WR-12	60 - 90	1	1.67:1	Round Cover UG-387/U	1.0mm Female	EAR99	PE-W12CA001	\$5,199.79		74
					1.0mm Male	EAR99	PE-W12CA002	\$5,036.33		75
WR-15	50 - 65	0.5	1.44:1	Round Cover UG-385/U	1.85mm Female	EAR99	PE-W15CA001	\$1,403.93		76
					1.85mm Male	EAR99	PE-W15CA002	\$1,446.42		77
WR-19	40 - 60	0.4	1.38:1	Round Cover UG-383/U-Mod	1.85mm Female	EAR99	PE-W19CA001	\$1,509.18		78
					1.85mm Male	EAR99	PE-W19CA002	\$1,371.98		79
WR-22	33 - 50	0.4	1.33:1	Round Cover UG-383/U	2.4mm Female	EAR99	PE-W22CA001	\$1,451.87		80
					2.4mm Male	EAR99	PE-W22CA002	\$1,319.88		81
WR-28	26.5 - 40	0.35	1.29:1	Square Cover UG-599/U	2.92mm Female	EAR99	PE-W28CA001	\$719.16		82
					2.92mm Male	EAR99	PE-W28CA002	\$762.91	83	
					2.92mm Female	EAR99	PEWCA1000	\$824.73	84	
		0.3	1.3:1	Square Cover	2.92mm Female	EAR99	PEWCA1020	\$618.25	85	
					2.92mm Female	EAR99	PE9826	\$474.45	86	
WR-34	22 - 33	0.3	1.25:1	Square Cover UG-1530/U	2.92mm Female	EAR99	PEWCA1001	\$708.58	87	
					2.92mm Female	EAR99	PEWCA1021	\$583.52	88	
WR-42	18 - 26.5	0.75	1.4:1	Square Cover	2.92mm Female	EAR99	PE9827	\$827.54	89	
					2.92mm Female	EAR99	PEWCA1018	\$741.91	90	
		0.3	1.25:1	Square Cover UG-595/U	2.92mm Female	EAR99	PEWCA1019	\$502.97	91	
					2.92mm Female	EAR99	PE-W42CA001	\$762.91	92	
				2.92mm Male	EAR99	PE-W42CA002	\$762.91	93		



Free Shipping Available via UPS Ground to USA & Canada



Technical Support (866) 727-8376



Same-Day Shipping, Even Custom Cable Assemblies

WAVEGUIDE TO COAX ADAPTERS



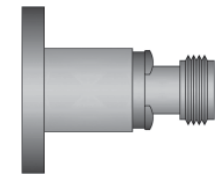
SMA Male



N Female



N Female

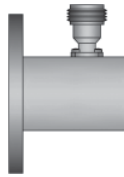


WG Type	RF Freq. (GHz.)	IL (dB)	Max VSWR	Flange Type	Connector	ECCN	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
WR-42	18 - 26.5	0.3	1.3:1	Square Cover UG-597/U	2.92mm Female	EAR99	PEWCA1022	\$489.74	See Web for Volume Pricing	94
				Square Cover	2.92mm Female	EAR99	PE9878	\$511.12		95
WR-51	15 - 22	0.3	1.4:1	Square Cover UG-595/U	2.92mm Male	EAR99	PE9813A	\$610.70		96
				Square Type	2.92mm Female	EAR99	PE9812	\$450.33		97
WR-62	12.4 - 18	0.3	1.25:1	Square Cover	SMA Female	EAR99	PEWCA1002	\$527.96		98
				Square Type	SMA Female	EAR99	PEWCA1027	\$736.36		99
WR-75	10 - 15	0.3	1.3:1	Square Type	SMA Female	EAR99	PE9828	\$508.12		1
				Square Type	SMA Female	EAR99	PE9879	\$728.56		2
WR-90	8.2 - 12.4	0.3	1.2:1	Square Cover UG-1665/U	SMA Male	EAR99	PE9809	\$371.67		3
				Square Cover UG-1665/U	SMA Female	EAR99	PEWCA1003	Call		4
WR-102	7 - 11	0.3	1.25:1	Square Cover UG-1665/U	SMA Female	EAR99	PEWCA1023	\$430.69		5
				Square Type	SMA Female	EAR99	PE9803	\$373.66		6
WR-112	7.05 - 10	0.3	1.4:1	Square Type	N Male	EAR99	PE9806	\$516.17		7
				Square Type	SMA Female	EAR99	PE9846	\$550.96		8
WR-122	7.05 - 10	0.3	1.4:1	Square Type	N Female	EAR99	PE9866	\$663.27		9
				Square Type	N Female	EAR99	PE9875	\$357.25		10
WR-132	7.05 - 10	0.3	1.25:1	Square Cover	SMA Female	EAR99	PEWCA1004	\$583.54		11
				Square Cover	N Female	EAR99	PEWCA1005	\$641.88		12
WR-142	7.05 - 10	0.3	1.25:1	Square Cover	SMA Female	EAR99	PEWCA1024	\$409.85		13
				Square Cover	N Female	EAR99	PEWCA1029	\$656.46		14
WR-152	7.05 - 10	0.3	1.3:1	Square Type	SMA Female	EAR99	PE9819	\$360.87		15
				Square Type	N Female	EAR99	PE9874	\$436.38		16
WR-162	7.05 - 10	0.3	1.4:1	Square Type	SMA Female	EAR99	PE9847	\$602.50		17
				Square Type	N Female	EAR99	PE9867	\$652.96		18
WR-172	7.05 - 10	0.3	1.2:1	Square Cover	7mm Sexless	EAR99	PE9815	\$751.06		19
				Square Cover	SMA Female	EAR99	PEWCA1032	\$659.93		20
WR-182	7.05 - 10	0.3	1.25:1	CMR-90	N Female	EAR99	PEWCA1033	\$659.93		21
				CPR-90G	SMA Female	EAR99	PEWCA1007	\$503.63		22
WR-192	7.05 - 10	0.3	1.25:1	CPR-90G	N Female	EAR99	PEWCA1009	\$541.84	23	
				CPR-90G	SMA Female	EAR99	PEWCA1034	\$639.09	24	
WR-202	7.05 - 10	0.3	1.25:1	Square Cover UG-135/U	N Female	EAR99	PEWCA1036	\$666.88	25	
				Square Cover UG-135/U	N Female	EAR99	PE9868	\$703.19	26	
WR-212	7.05 - 10	0.3	1.25:1	Square Cover UG-135/U	SMA Female	EAR99	PEWCA1025	\$399.43	27	
				Square Cover UG-135/U	N Female	EAR99	PEWCA1031	\$666.88	28	
WR-222	7.05 - 10	0.3	1.25:1	Square Cover UG-39/U	SMA Female	EAR99	PEWCA1006	\$604.36	29	
				Square Cover UG-39/U	N Female	EAR99	PEWCA1008	\$650.21	30	
WR-232	7.05 - 10	0.3	1.25:1	UDR100	N Female	EAR99	PE9883	\$354.33	31	
				CPR-90G	N Female	EAR99	PE9873	\$447.97	32	
WR-242	7.05 - 10	0.3	1.3:1	Square Type	N Female	EAR99	PE9801	\$364.79	33	
				Square Type	N Female	EAR99	PE9804	\$354.26	34	
WR-252	7.05 - 10	0.3	1.3:1	Square Type	SMA Male	EAR99	PE9810	\$427.54	35	
				Square Type	SMA Female	EAR99	PE9848	\$531.12	36	
WR-262	7.05 - 10	0.3	1.3:1	Square Type	N Male	EAR99	PE9889	\$413.15	37	
				Square Type	N Female	EAR99	PE9869	\$441.19	38	
WR-272	7.05 - 10	0.3	1.25:1	Square Cover UG-1493/U	SMA Female	EAR99	PE9805	\$513.72	39	
				Square Cover	SMA Male	EAR99	PE9811	\$264.90	40	
WR-282	7.05 - 10	0.3	1.3:1	Square Type	N Female	EAR99	PE9802	\$458.07	41	
				Square Type	N Male	EAR99	PE9890	\$413.15	42	
WR-292	7.05 - 10	0.3	1.4:1	Square Type	SMA Female	EAR99	PE9871	\$419.21	43	
				Square Type	SMA Female	EAR99	PEWCA1042	\$659.93	44	
WR-302	7.05 - 10	0.3	1.25:1	CMR-112	N Female	EAR99	PEWCA1043	\$659.93	45	
				CPR-112G	SMA Female	EAR99	PEWCA1011	\$641.88	46	
WR-312	7.05 - 10	0.3	1.25:1	CPR-112G	N Female	EAR99	PEWCA1013	\$548.80	47	
				CPR-112G	SMA Female	EAR99	PEWCA1044	\$656.46	48	
WR-322	7.05 - 10	0.3	1.25:1	Square Cover UG-138/U	N Female	EAR99	PEWCA1045	\$673.84	49	
				Square Cover UG-138/U	SMA Female	EAR99	PEWCA1040	\$656.46	50	
WR-332	7.05 - 10	0.3	1.25:1	Square Cover UG-51/U	N Female	EAR99	PEWCA1041	\$673.84	51	
				Square Cover UG-51/U	SMA Female	EAR99	PEWCA1010	\$641.88	52	
WR-342	7.05 - 10	0.3	1.3:1	CPR-112G	N Female	EAR99	PEWCA1012	\$658.56	53	
				CPR-112G	N Female	EAR99	PE9837	\$569.11	54	
WR-352	7.05 - 10	0.3	1.3:1	Square Type	N Female	EAR99	PE9820	\$370.67	55	
				Square Type	N Female	EAR99	PE9870	\$513.05	56	
WR-362	7.05 - 10	0.3	1.4:1	Square Type	SMA Female	EAR99	PE9884	\$347.06	57	
				Square Type	SMA Female	EAR99	PE9865	\$595.38	58	

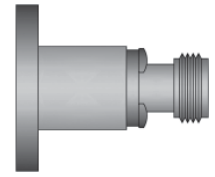
WAVEGUIDE TO COAX ADAPTERS



SMA Male



N Female

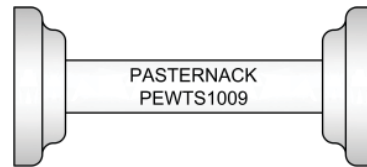
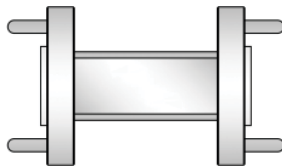


N Female

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-137	5.85 - 8.2		1.25:1	CMR-137	SMA Female	EAR99	PEWCA1048	\$677.30	See Web for Volume Pricing	59				
					N Female	EAR99	PEWCA1049	\$677.30		60				
					CPR-137G	SMA Female	EAR99	PEWCA1015		\$555.73	61			
						N Female	EAR99	PEWCA1017		\$559.22	62			
						SMA Female	EAR99	PEWCA1050		\$677.30	63			
						N Female	EAR99	PEWCA1051		\$680.77	64			
				Round Cover UG-344/U	SMA Female	EAR99	PEWCA1014	\$555.73		65				
					N Female	EAR99	PEWCA1016	\$671.06		66				
				Round Cover UG-441/U	SMA Female	EAR99	PEWCA1046	\$677.30		67				
					N Female	EAR99	PEWCA1047	\$680.77		68				
				WR-159	4.9 - 7.05		1.3:1	CMR-137		SMA Female	EAR99	PE9830	\$510.68	69
										N Female	EAR99	PE9876	\$211.09	70
CPR-137G	N Female	EAR99	PE9838					\$298.75	71					
	N Female	EAR99	PE9821					\$689.78	72					
CMR-159	SMA Female	EAR99	PE9831					\$647.62	73					
	N Female	EAR99	PE9839					\$727.71	74					
WR-187	3.95 - 5.85		1.25:1	CPR-159G	SMA Female	EAR99	PEWCA1057	\$597.41	75					
					N Female	EAR99	PEWCA1058	\$538.38	76					
				CMR-187	N Female	EAR99	PEWCA1059	\$538.38	77					
					N Female	EAR99	PEWCA1056	\$632.16	78					
				Round Cover UG-407/U	N Female	EAR99	PE9822	\$451.99	79					
					SMA Female	EAR99	PE9832	\$784.77	80					
WR-229	3.3 - 4.9		1.3:1	CPR-187G	N Female	EAR99	PE9840	\$830.83	81					
					N Female	EAR99	PE9823	\$610.70	82					
				CMR-229	SMA Female	EAR99	PE9833	\$648.80	83					
					N Female	EAR99	PE9877	\$866.43	84					
				CPR-229G	SMA Female	EAR99	PE9834	\$1,301.09	85					
					N Female	EAR99	PE9824	\$800.47	86					
WR-284	2.6 - 3.95		1.25:1	CMR-284	N Female	EAR99	PE9842	\$459.15	87					
					N Female	EAR99	PE9842	\$459.15	87					
WR-340	2.2 - 3.3	0.12	1.25:1	CPR-284G	N Female	EAR99	PE9842	\$459.15	87					
					N Female	EAR99	PE9842	\$459.15	87					
WR-430	1.7 - 2.6		1.3:1	CPR-340F	N Female	EAR99	PE9882	\$1,016.56	88					
					N Female	EAR99	PE9882	\$1,016.56	88					
				CPR-430F	SMA Female	EAR99	PE9835	\$1,346.22	89					
					N Female	EAR99	PE9872	\$1,250.72	90					
				CPR-430G	N Female	EAR99	PE9843	\$1,455.50	91					
					N Female	EAR99	PE9843	\$1,455.50	91					

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

WAVEGUIDE TRANSITIONS



WG 1 Type	Flange 1 Type	WG 2 Type	Flange 2 Type	VSWR	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	Round Cover UG-387/U-Mod	WR-12	Round Cover UG-387/U	1.6:1	EAR99	PE-W10TS12001A	\$1,205.04	\$1,156.84	\$1,108.64	\$1,060.44	92
		WR-15	Round Cover UG-385/U	1.45:1	EAR99	PE-W10TS15001	\$1,205.04	\$1,156.84	\$1,108.64	\$1,060.44	93
		WR-19	Round Cover UG-383/U-Mod	1.4:1	EAR99	PE-W10TS19001	\$1,311.36	\$1,258.91	\$1,206.45	\$1,154.00	94
WR-12	Round Cover UG-387/U	WR-15	Round Cover UG-385/U	1.2:1	EAR99	PE-W12TS15001	\$1,253.24	\$1,203.11	\$1,152.98	\$1,102.85	95
WR-15	Round Cover UG-385/U	WR-19	Round Cover UG-383/U-Mod	1.1:1	EAR99	PE-W15TS19001	\$1,253.24	\$1,203.11	\$1,152.98	\$1,102.85	96
		WR-22	Round Cover UG-383/U	1.15:1	EAR99	PE-W15TS22001	\$1,311.36	\$1,258.91	\$1,206.45	\$1,154.00	97
WR-19	Round Cover UG-383/U-Mod	WR-22	Round Cover UG-383/U	1.5:1	EAR99	PE-W19TS22001	\$1,205.04	\$1,156.84	\$1,108.64	\$1,060.44	98
		WR-28	Square Cover UG-599/U	1.35:1	EAR99	PE-W19TS28001	\$1,253.24	\$1,203.11	\$1,152.98	\$1,102.85	99
WR-22	Round Cover UG-383/U	WR-28	Square Cover UG-599/U	1.35:1	EAR99	PE-W22TS28001	\$1,253.24	\$1,203.11	\$1,152.98	\$1,102.85	1
		WR-42	Square Cover UG-595/U	1.35:1	EAR99	PE-W22TS42001	\$1,205.04	\$1,156.84	\$1,108.64	\$1,060.44	2
WR-28	Square Cover UG-599/U	WR-42	Square Cover UG-595/U	1.2:1	EAR99	PE-W28TS42001	\$1,205.04	\$1,156.84	\$1,108.64	\$1,060.44	3
		WR-51	UBR-180/U-Mod	1.38:1	EAR99	PE-W28TS51001	\$1,311.36	\$1,258.91	\$1,206.45	\$1,154.00	4

Waveguides



Free Shipping Available via UPS Ground to USA & Canada

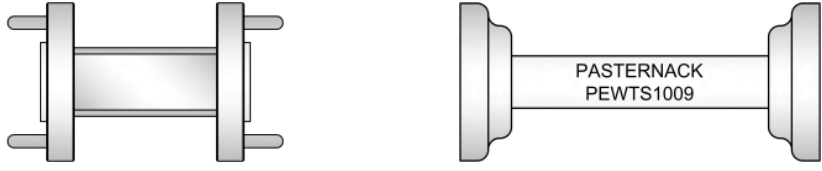


Technical Support (866) 727-8376



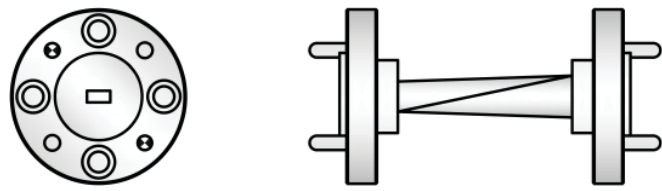
Same-Day Shipping, Even Custom Cable Assemblies

WAVEGUIDE TRANSITIONS



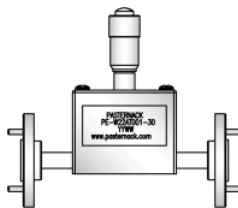
WG 1 Type	Flange 1 Type	WG 2 Type	Flange 2 Type	VSWR	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-34	Square Cover UG-1530/U	WR-28	Square Cover UG-599/U	1.08:1	EAR99	PEWTS1010	\$767.54	\$736.84	\$706.14	\$675.44	5
WR-42	Square Cover UG-595/U	WR-34	Square Cover UG-1530/U	1.08:1	EAR99	PEWTS1009	\$744.30	\$714.53	\$684.76	\$654.98	6
WR-51	Square Cover	WR-42	Square Cover UG-595/U	1.08:1	EAR99	PEWTS1008	\$744.30	\$714.53	\$684.76	\$654.98	7
WR-62	Square Cover UG-1665/U	WR-51	Square Cover	1.08:1	EAR99	PEWTS1007	\$805.03	\$772.83	\$740.63	\$708.43	8
WR-75	Square Cover	WR-62	Square Cover UG-1665/U	1.08:1	EAR99	PEWTS1006	\$805.03	\$772.83	\$740.63	\$708.43	9
WR-90	Square Cover UG-39/U	WR-75	Square Cover	1.08:1	EAR99	PEWTS1004	\$815.75	\$783.12	\$750.49	\$717.86	10
	CPR-90G	WR-75		1.08:1	EAR99	PEWTS1005	\$842.18	\$808.49	\$774.81	\$741.12	11
WR-112	Square Cover UG-51/U	WR-90	Square Cover UG-39/U	1.08:1	EAR99	PEWTS1002	\$863.37	\$828.84	\$794.30	\$759.77	12
	CPR-112G	WR-90	CPR-90G	1.08:1	EAR99	PEWTS1003	\$851.46	\$817.40	\$783.34	\$749.28	13
WR-137	Round Cover UG-344/U	WR-112	Square Cover UG-51/U	1.08:1	EAR99	PEWTS1000	\$922.91	\$885.99	\$849.08	\$812.16	14
	CPR-137G	WR-112	CPR-112G	1.08:1	EAR99	PEWTS1001	\$928.88	\$891.72	\$854.57	\$817.41	15

WAVEGUIDE TWISTS



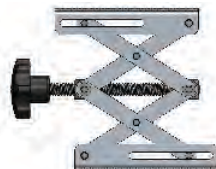
WG Type	RF Freq. (GHz.)	Max VSWR	WG Offset Angle (Deg)	Length (in)	Flange Type	ECCN	Model No	1	2-4	5-9	10+	ROW
WR-10	75 - 110	1.1:1	45 Left-hand	1	Round Cover UG-387/U-Mod	EAR99	PE-W10TW1002	\$418.22	\$401.49	\$384.76	\$368.03	16
			45 Right-hand		Round Cover UG-387/U-Mod	EAR99	PE-W10TW1003	\$418.22	\$401.49	\$384.76	\$368.03	17
		1.43:1	90		Round Cover UG-387/U-Mod	EAR99	PE-W10TW1001	\$394.41	\$378.63	\$362.86	\$347.08	18
WR-12	60 - 90	1.16:1	45 Left-hand	1	Round Cover UG-387/U	EAR99	PE-W12TW1002	\$418.22	\$401.49	\$384.76	\$368.03	19
			45 Right-hand		Round Cover UG-387/U	EAR99	PE-W12TW1003	\$418.22	\$401.49	\$384.76	\$368.03	20
		1.12:1	90		Round Cover UG-387/U	EAR99	PE-W12TW1001	\$467.86	\$449.15	\$430.43	\$411.72	21
WR-15	50 - 75	1.11:1	45 Left-hand	1	Round Cover UG-385/U	EAR99	PE-W15TW1002	\$418.22	\$401.49	\$384.76	\$368.03	22
			45 Right-hand		Round Cover UG-385/U	EAR99	PE-W15TW1003	\$418.22	\$401.49	\$384.76	\$368.03	23
		90	Round Cover UG-385/U		EAR99	PE-W15TW1001	\$394.41	\$378.63	\$362.86	\$347.08	24	
WR-19	40 - 60	1.25:1	45 Left-hand	2	Round Cover UG-383/U-Mod	EAR99	PE-W19TW1002	\$418.22	\$401.49	\$384.76	\$368.03	25
			45 Right-hand		Round Cover UG-383/U-Mod	EAR99	PE-W19TW1003	\$418.22	\$401.49	\$384.76	\$368.03	26
		1.22:1	90		Round Cover UG-383/U-Mod	EAR99	PE-W19TW1001	\$368.60	\$353.86	\$339.11	\$324.37	27
WR-22	33 - 50	1.02:1	45 Left-hand	2	Round Cover UG-383/U	EAR99	PE-W22TW1002	\$418.22	\$401.49	\$384.76	\$368.03	28
			45 Right-hand		Round Cover UG-383/U	EAR99	PE-W22TW1003	\$418.22	\$401.49	\$384.76	\$368.03	29
			90		Round Cover UG-383/U	EAR99	PE-W22TW1001	\$368.60	\$353.86	\$339.11	\$324.37	30
WR-28	26.5 - 40	1.09:1	45 Left-hand	2	Square Cover UG-599/U	EAR99	PE-W28TW1002	\$447.50	\$429.60	\$411.70	\$393.80	31
			45 Right-hand		Square Cover UG-599/U	EAR99	PE-W28TW1003	\$447.50	\$429.60	\$411.70	\$393.80	32
		1.07:1	90		Square Cover UG-599/U	EAR99	PE-W28TW1001	\$368.60	\$353.86	\$339.11	\$324.37	33
WR-42	18 - 26.5	1.25:1	45 Left-hand	3	Square Cover UG-595/U	EAR99	PE-W42TW1002	\$435.95	\$418.51	\$401.07	\$383.64	34
			45 Right-hand		Square Cover UG-595/U	EAR99	PE-W42TW1003	\$435.95	\$418.51	\$401.07	\$383.64	35
		1.07:1	90		Square Cover UG-595/U	EAR99	PE-W42TW1001	\$413.38	\$396.84	\$380.31	\$363.77	36

WAVEGUIDES 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-W10AT001-30	\$1,859.97	\$1,785.57	\$1,711.17	\$1,636.77	37
WR-12	60 - 90	Round Cover UG-387/U	0.9		EAR99	PE-W12AT001-30	\$1,850.86	\$1,776.83	\$1,702.79	\$1,628.76	38
WR-15	50 - 75	Round Cover UG-385/U	0.8		EAR99	PE-W15AT001-30	\$1,850.86	\$1,776.83	\$1,702.79	\$1,628.76	39
WR-19	40 - 60	Round Cover UG-383/U-Mod	0.6		EAR99	PE-W19AT001-30	\$1,806.83	\$1,734.56	\$1,662.28	\$1,590.01	40
WR-22	33 - 50	Round Cover UG-383/U	0.5		EAR99	PE-W22AT001-30	\$1,771.40	\$1,700.54	\$1,629.69	\$1,558.83	41

WAVEGUIDE ACCESSORIES



Model No	Description	1	2-4	5-9	10+	ROW
PEWVK1014	WR-28 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	\$102.02	\$97.94	\$93.86	\$89.78	42
PEWVK1000	WR-28 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	\$42.46	\$40.76	\$39.06	\$37.36	43
PEWVK1015	WR-42, WR-34 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	\$117.58	\$112.88	\$108.17	\$103.47	44
PEWVK1001	WR-42, WR-34 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	\$42.70	\$40.99	\$39.28	\$37.58	45
PEWVK1016	WR-51 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	\$134.36	\$128.99	\$123.61	\$118.24	46
PEWVK1002	WR-51 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	\$43.66	\$41.91	\$40.17	\$38.42	47
PEWVK1017	WR-62 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	\$196.36	\$188.51	\$180.65	\$172.80	48
PEWVK1003	WR-62 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	\$46.94	\$45.06	\$43.18	\$41.31	49
PEWVK1018	WR-75 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	\$117.33	\$112.64	\$107.94	\$103.25	50
PEWVK1004	WR-75 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	\$46.94	\$45.06	\$43.18	\$41.31	51
PEWVK1019	WR-90 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	\$164.51	\$157.93	\$151.35	\$144.77	52
PEWVK1021	WR-90 Waveguide Electrically Conductive Gasket kit, CPR Flat Flange	\$125.85	\$120.82	\$115.78	\$110.75	53
PEWVK1020	WR-90 Waveguide Electrically Conductive Gasket kit, CPR Grooved Flange	\$145.30	\$139.49	\$133.68	\$127.86	54
PEWVK1005	WR-90 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	\$50.48	\$48.46	\$46.44	\$44.42	55
PEWVK1007	WR-90 Waveguide Gasket kit, CPR90 Flat Flange, Non-Conductive	\$56.90	\$54.62	\$52.35	\$50.07	56
PEWVK1006	WR-90 Waveguide Gasket kit, CPR90 Grooved Flange, Non-Conductive	\$56.90	\$54.62	\$52.35	\$50.07	57
PEWVK1022	WR-112 Waveguide Electrically Conductive Gasket kit Square Cover, Choke Flange	\$142.86	\$137.15	\$131.43	\$125.72	58
PEWVK1024	WR-112 Waveguide Electrically Conductive Gasket kit, CPR Flat Flange	\$128.87	\$123.72	\$118.56	\$113.41	59
PEWVK1023	WR-112 Waveguide Electrically Conductive Gasket kit, CPR Grooved Flange	\$178.96	\$171.80	\$164.64	\$157.48	60
PEWVK1008	WR-112 Waveguide Gasket kit Square Cover, Choke Flange, Non-Conductive	\$50.48	\$48.46	\$46.44	\$44.42	61
PEWVK1010	WR-112 Waveguide Gasket kit, CPR112 Flat Flange, Non-Conductive	\$58.61	\$56.27	\$53.92	\$51.58	62
PEWVK1009	WR-112 Waveguide Gasket kit, CPR112 Grooved Flange, Non-Conductive	\$58.61	\$56.27	\$53.92	\$51.58	63
PEWVK1026	WR-137 Waveguide Electrically Conductive Gasket kit, CPR Grooved Flange	\$168.02	\$161.30	\$154.58	\$147.86	64
PEWVK1027	WR-137 Waveguide Electrically Conductive Gasket kit, CPR Grooved Flange	\$142.86	\$137.15	\$131.43	\$125.72	65
PEWVK1025	WR-137 Waveguide Electrically Conductive Gasket kit, Round Cover, Choke Flange	\$294.09	\$282.33	\$270.56	\$258.80	66
PEWVK1011	WR-137 Waveguide Gasket kit Round Cover, Choke Flange, Non-Conductive	\$54.61	\$52.43	\$50.24	\$48.06	67
PEWVK1013	WR-137 Waveguide Gasket kit, CPR137 Flat Flange, Non-Conductive	\$60.44	\$58.02	\$55.60	\$53.19	68
PEWVK1012	WR-137 Waveguide Gasket kit, CPR137 Grooved Flange, Non-Conductive	\$60.44	\$58.02	\$55.60	\$53.19	69
PEWVHW1001	Waveguide Table Jack, Large	\$329.98	\$316.78	\$303.58	\$290.38	70
PEWVHW1000	Waveguide Table Jack, Medium	\$277.88	\$266.76	\$255.65	\$244.53	71
PEWVHW9000	4-40 with 3/32 inch Hex, Stainless Steel Waveguide Flange Screw	\$4.29	\$4.12	\$3.95	\$3.78	72

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Waveguides



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PASTERNAK ENTERPRISES -- REACH PRODUCT COMPLIANCE PROGRAM

What is REACH Compliance?

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 to streamline and improve the former legislative framework for chemicals available in the European Union (EU) and European Economic Area (EEA) countries.

The objective of REACH is to improve protection of human health and the protection of the environment from the exposure to chemicals. REACH compliance is mandatory for products manufactured in, or imported into the European Union (EU).

As outlined by the REACH regulation, any organization manufacturing, importing, using or placing a substance, mixture, article or product on the EU market will be responsible for ensuring that the component substances are in compliance with REACH regulations.

Determining REACH Compliance of Pasternack Products:

Pasternack Enterprises does not currently either manufacture or import any chemical substances into the EU on their own or in articles (products) in quantities of 1 ton or more per year. In addition, products imported by Pasternack Enterprises' customers do not contain chemical substances intended to be released during the normal and reasonably foreseeable conditions of the product's use as defined by the REACH regulation and existing guidance.

However, under REACH, there is an obligation to ensure that articles do not contain <0.1% by weight of Substances of Very High Concern (SVHCs). SVHCs are substances that may cause cancer or other serious health or environmental effects and thus face restriction or outright bans, and are listed in a regularly-updated 'Candidate list'. The current Candidate list can be downloaded from the European Chemicals Agency (ECHA) website:

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

For each part that has been found to comply with the REACH SVHC reporting requirements, we show an indication of compliance adjacent to the part number using this symbol:



All products displaying this symbol on our website are assured to contain no SVHCs as defined by the Candidate List displayed on the Pasternack REACH certificate. When you locate the product you need on our website, please click on the "Product ID or Part Number". You will see the "REACH symbol" for the specific part. Click on this symbol to view the Certificate of REACH Compliance (printable if needed) for the specific product as well as the applicable ECHA SVHC Candidate list Date.

Pasternack Enterprises - REACH Product Compliance Program:

At Pasternack Enterprises, we recognize our responsibility as a worldwide supplier of RF, Microwave and Fiber Optic Products subject to the REACH regulations. We have completed a comprehensive effort internally and with our supply chain to determine the REACH compliance of our products. You will find our Reach Symbol adjacent to all products on our website that have been determined by Pasternack and our supply chain to contain less than 0.1% by weight of the REACH substances. You will also see the applicable ECHA SVHC Candidate List Date. "Please refer to our website at www.Pasternack.com.

The Pasternack Enterprises REACH Product Compliance Program is implemented in accordance with Regulation No. 1907/2006 of the European Parliament and the Council of 18 December 2006. Pasternack has implemented a REACH compliance program to address this legislation. Pasternack Enterprises does not currently either manufacture or import any chemical substances into the EU on their own or in articles (products) in quantities of 1 ton or more per year. In addition, products imported by Pasternack Enterprises' customers do not contain chemical substances intended to be released during the normal and reasonably foreseeable conditions of the product's use as defined by the REACH regulation and existing guidance. Thus, Pasternack Enterprises does not currently have a direct REACH obligation to pre-register substances. Pasternack's REACH Product Compliance is determined by a certification from our supply chain. A Pasternack product is deemed to be REACH compliant when it does not contain Substances of Very High Concern (SVHCs) beyond the specified concentration limits of less than 0.1% by weight as outlined in REACH 1907/2006/EU regulation.

Need More Information?

If you have questions regarding REACH Product Certification on Pasternack's products, please contact the Pasternack REACH Compliance Team via email at REACH@Pasternack.com or by calling Toll-Free within North America at 1-866-PASTERNAK (1-866-727-8376). International customers, please call +1-949-261-1920.



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Same-Day Shipping,
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PASTERNAK ENTERPRISES ROHS COMPLIANCE PROGRAM

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

Our Commitment

At Pasternack, we recognize our responsibility as an international supplier of RF, Microwave and Millimeter wave electronics products to maintain a comprehensive RoHS compliance program. We are fully committed to offering RoHS compliance on the majority of our products and posting accurate RoHS compliance status for all of our products. We have posted this data on our website so that it can be easily found for each part number within our on-line catalogue.

What is RoHS Compliance?

The European Union set forth the RoHS (Restriction of Hazardous Substances) Directive to establish environmental guidelines and legislation to reduce the presence of six (6) 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 weight percentage

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

Determining Pasternack RoHS Compliance

All products displaying this symbol on our website have been certified as RoHS Compliant. Click on the symbol to view the Certificate of RoHS Compliance for that product.



Lead Free Cable Assemblies

Many of Pasternack's cable assemblies are built with leaded solder. If so, the part will not be RoHS compliant and a certificate will not be found on the product page for that assembly. However, many of these assemblies can be brought into RoHS compliance through the use of Lead-Free solder. If the assembly you desire is not RoHS compliant, there may be a RoHS compliant version with a similar part number. If so, you will see an "LF" contained in the basic part number (example PE3067LF-24 is the lead free version of PE3067-24). Please note: the "LF" designation is used only when the base part number is not RoHS compliant. Many assemblies do not include "LF" and are compliant because they are only offered in a RoHS compliant configuration.

For More Information

Please direct any questions to Pasternack Enterprises Technical Support via email at TechSupport@Pasternack.com or by calling Toll-Free within North America at 1-866-PASTERNAK (866-727-8376). International customers, please use +1-949-261-1920.

MAILING LIST CHANGES

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

PLACING YOUR ORDER

► **By Telephone: 866-PASTERNAK (866-727-8376)
US & Canada, or 949-261-1920**

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

► **By Fax: 949-261-7451**

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

► **By Internet: www.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, Inc.
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 <http://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 is Free:

On UPS Ground orders, there is no charge for shipping for USA & Canada orders of \$100.00 or greater. Otherwise, shipping or freight charges and insurance will be paid by the customer. All sales are made FOB Point (as defined by the INCOTERMS 2000) in Irvine, CA 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) 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, Discover, and C.O.D. 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 except C.O.D.

For International customers, see **International Orders**.

Open Account Credit:

Net 30 Days terms are available to businesses, schools and agencies subject to credit approval. Approval can begin by submitting a completed Credit Application, which can be found online at:

www.Pasternack.com/t-CreditApplication.aspx

EFT/Wire Transfers:

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

WELLS FARGO BANK
420 Montgomery St.
San Francisco, CA 94104 USA
Account Number: 4270 0000 0000 0000 1
Routing Number: 121000248
SWIFT Number: WFBUS6S

International Orders:

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

Pasternack has international distributors for the following countries:

Africa: Namibia, South Africa

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

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

Middle East: Israel

South America: Brazil

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

International Shipping Charges:

Shipping or freight charges and insurance will be paid by the customer. All sales are made FOB 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.



Free Shipping Available
via UPS Ground
to USA & Canada



Technical
Support
(866) 727-8376



Same-Day Shipping,
Even Custom
Cable Assemblies

BINDING TERMS AND CONDITIONS OF SALE

The following are the terms and conditions ("Terms and Conditions") for the sale of products ("Products") by Pasternack Enterprises, Inc. ("Pasternack") to Pasternack's customers ("Customers"). Please read this agreement carefully. Any different or additional terms set forth in customer's purchase order or similar communication are objected to and shall not be binding on the company unless a separate agreement has been signed by an authorized officer of the company. By placing an order for products from the company, 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.

1. ACCEPTANCE AND CANCELLATION OF ORDERS

All orders are subject to acceptance by Pasternack in writing by a duly authorized agent of Pasternack; any written acknowledgement of receipt of an order shall not, in and of itself, constitute such acceptance. Orders accepted and processed by Pasternack may not be cancelled by Customer except as covered by the Limited Warranty. All sales are final. Cable Assemblies and Non-Standard Products are also Non-Cancelable/Non-Refundable ("NC/NR"). Non-Standard Parts are defined as Products which are special orders, custom orders, orders for non-standard products, products not customarily in stock or orders for value-added products. In the event of cancellation or other withdrawal of an order for any reason and without limiting any other remedy which Pasternack may have 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 Pasternack, shall be paid by Customer to Pasternack. Customer requests to reschedule are subject to acceptance by Pasternack in its sole discretion. Orders may not be rescheduled after the order has been submitted by Pasternack to the shipment carrier.

2. PRICES

Orders are billed at the prices (in US dollars) in effect at the time of shipment. Prices will be as specified by Pasternack and will be applicable for the period specified in Pasternack's quote. If no period is specified, quoted prices will be applicable for thirty (30) days. The website contains the most current pricing and is the price reference for orders. Pricing included in the catalog is for reference only and final pricing is determined by the published website price. Prices shown in the RF Product Guide (Catalog) and on the website are subject to change without notice. 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.

3. TERMS OF PAYMENT

All payments must be in US Dollars, or will be converted to US Dollars using the available exchange rate at the time of purchase.

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 Pasternack subject to credit approval.

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 Pasternack. 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. Customer is responsible for 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.

4. SALES TAX

California residents are required to remit sales tax. Pasternack does not remit sales tax to states other than California. Any sales tax due that is not collected by Pasternack is the responsibility of the customer.

5. TOLERANCES

All coaxial cable assemblies displayed in the Pasternack catalog and website have a standard cable length tolerance of $\pm 1.5\%$ or 3/8 inches (0.375"), whichever is greater. Cable Assemblies in excess of this tolerance factor are eligible for repair and/or replacement under the terms of the Pasternack Limited Warranty.

6. DELIVERY AND TITLE

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. Shipping or freight charges from Pasternack's Irvine, CA facility are prepaid and added to the invoice, or billed collect. Subject to Pasternack's right of stoppage in transit, delivery of the Products to the carrier will constitute delivery to Customer and title and risk of loss will pass to Customer. Pasternack will make reasonable efforts to initiate shipment and schedule delivery as close as possible to Customer's requested delivery date(s). Customer acknowledges that delivery dates provided by Pasternack are estimates only and that Pasternack will not be liable for failure to deliver on such dates. Selection of the carrier and delivery route will be made by Pasternack unless specifically designated by Customer. Pasternack reserves the right to make deliveries in installments. Delay in delivery of one installment will not entitle Customer 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 Customer of the obligation to accept delivery and pay for the Products delivered.

7. PASTERNAK'S LIMITED WARRANTY

All products are covered by a LIMITED WARRANTY for a period of one (1) year from the date of shipment when purchased from Pasternack Enterprises, Inc. Customer must notify Pasternack within one (1) year from date of shipment of any defective product. An approved Return Material Authorization (RMA) number must first be obtained from Pasternack prior to the return of any merchandise to Pasternack for inspection under warranty. Shipping charges for all materials returned under this Limited Warranty are to be prepaid by the Customer. This warranty is limited to the original purchaser. Pasternack's liability arising out of any sale of products to Customer is expressly limited to either (1) Credit for the purchase price paid by Customer for such products (without interest), or (2) Repair and/or replacement of such products, found to be defective after inspection by Pasternack, and such remedies shall be exclusive and in lieu of all others. 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. Further, no warranty will apply if the Product has been subject to misuse, neglect, accident or modification, or has been soldered or altered in any way.

All returns must be shipped to: Pasternack Enterprises, Inc.
17802 Fitch
Irvine, CA 92614 USA

8. LIMITATION OF LIABILITIES

In no event shall Pasternack be liable for any special, incidental or consequential damages of any nature including, but not limited to, damages resulting from loss of profit or revenue, recall costs, claims for service interruptions or failure to supply downtime, testing, installations or removal costs, costs of substitute products, property damage, personal injury, death or legal expenses. Customer's recovery from Pasternack for any claim shall not exceed the purchase price paid by Customer for the goods, irrespective of the nature of the claim, whether in warrant, contract or otherwise. CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD PASTERNAK HARMLESS FROM ANY CLAIMS brought by any party regarding products supplied by Pasternack and incorporated into the customer's product.

9. STATEMENTS AND ADVICE

If statements or advice, technical or otherwise, are offered or given to Customer, such statements or advice will be deemed to be given as an accommodation to Customer and without charge and Pasternack shall have no responsibility or liability for the content or use of such statements or advice.

10. EXPORT CONTROL AND EMBARGOES

Products purchased or received under these Terms and Conditions are subject to export control and economic sanctions laws, restrictions, regulations and orders of the United States. Customer agrees to comply with all applicable export control laws, restrictions and regulations of the United States 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 foreign law or regulation. Customer 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. Customer shall be solely responsible to obtain any license to export, re-export or import as may be required. Customer 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.

11. GENERAL

The Terms and Conditions may not be modified or cancelled without Pasternack's written agreement. Accordingly, goods furnished and services rendered by Pasternack are sold only on the terms and conditions stated herein. The Terms and Conditions will be governed by and construed in accordance with the laws of the State of California and the applicable laws of the United States of America. If Customer chooses to access the Pasternack website from outside the United States, Customer does so on their own initiative and is responsible for compliance with all applicable local laws.

12. INTELLECTUAL PROPERTY

The drawings, text, product depictions, logos, content, product descriptions, and organization and taxonomy of Pasternack's RF Product Guide and website and of the described content within the RF Product Guide and website are proprietary to Pasternack and protected by intellectual property laws, including but not limited to United States Copyright law and United States Trademark law. Pasternack owns copyrights in these referenced works as well as the selection, arrangement, coordination and structure of the arranged content and works within their RF Product Guide and website. Use of the RF Product Guide/website does not give you any right to modify, reproduce, transmit, publish, publicly display, adapt, or create derivative works or in any way exploit any of the materials and content of Pasternack's RF Product Guide or website.

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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PE91141	24	C1	PE91299	33	C1	PEWAD5005	223	72	PEWCP1054	226	78	PEWCT1091	227		PEWTR1005	234	30
PE91144	Web		PE91300	33	D1	PEWAD5006	223	77	PEWCP1055	226	79	PEWCT1092	227		PEWTR1006	235	51
PE91145	15	A6	PE91301	33	B2	PEWAD5006	223	74	PEWCP1056	226	81	PEWCT1093	227		PEWTR1007	235	58
PE91146	15	B6	PE91302	30	D6	PEWAD5007	223	77	PEWCP1057	226	83	PEWCT1094	227		PEWTR1008	235	66
PE91147	18	D3	PE91303	Web		PEWAD5008	223	73	PEWCP1058	226	85	PEWCT1095	227		PEWTR1009	235	67
PE91148	Web		PE91304	Web		PEWAD5009	223	75	PEWCP1059	226	80	PEWCT1096	227		PEWTR1010	235	70
PE91149	28	B5	PE91305	34	C1	PEWAD5010	223	76	PEWCP1060	226	82	PEWCT1097	227		PEWTR1011	235	71
PE91150	29	A3	PE91306	34	D1	PEWAD5011	223	78	PEWCP1061	226	84	PEWCT1098	227		PEWTR1012	235	72
PE91151	28	A2	PE91307	34	D2	PEWAD5012	223	79	PEWCP1062	226	86	PEWCT1099	227		PEWTR1013	235	73
PE91152	28	C5	PE91308	34	C4	PEWAD5013	223	80	PEWCP1063	226	87	PEWCT1100	227		PEWTR1014	235	74
PE91153	Web		PE91309	31	D4	PEWAD5014	223	81	PEWCP1064	226	89	PEWCT1101	227		PEWTR1015	235	75
PE91154	28	C1	PE91310	31	A5	PEWAD5015	223	82	PEWCP1065	226	91	PEWCT1102	227		PEWTR1016	235	76
PE91155	28	B4	PE91311	31	B5	PEWAD5016	223	83	PEWCP1066	226	93	PEWCT1103	227		PEWTR1017	235	77
PE91156	29	C2	PE91312	Web		PEWAD5017	223	84	PEWCP1067	226	88	PEWCT1104	227		PEWTR1018	235	78
PE91157	Web		PE91321	29	A1	PEWAD5018	224	85	PEWCP1068	226	90	PEWCT1105	227		PEWTR1019	235	79
PE91158	14	A4	PE91324	38	D4	PEWAD5019	224	86	PEWCP1069	226	92	PEWCT1106	227		PEWTR1020	235	80
PE91159	Web		PE91325	29	D2	PEWAN1001	220	42	PEWCP1070	226	94	PEWCT1107	227		PEWTR1021	235	81
PE91160	14	B4	PE91327	28	D1	PEWAT1000-30	Web		PEWCP1071	226	95	PEWCT1108	227		PEWTR1022	235	82
PE91161	Web		PE91328	38	D2	PEWAT1001-30	Web		PEWCP1072	226	97	PEWCT1109	227		PEWTR1023	235	83
PE91162	Web		PE91329	Web		PEWAT1003-30	Web		PEWCP1073								

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 μ W
-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 μ W
-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 μ W
-61	0.2	
-62	0.18	
-63	0.16	
-64	0.141	
dBm	μ V	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	μ V	Po
-94	4.5	
-95	4.0	
-96	3.51	
-97	3.2	
-98	2.9	
-99	2.51	
-100	2.25	.1 pW
-101	2.0	
-102	1.8	
-103	1.6	
-104	1.41	
-105	1.27	
-106	1.18	
dBm	nV	Po
-107	1000	
-108	900	
-109	800	
-110	710	.01 pW
-109	640	
-112	580	
-113	500	
-114	450	
-115	400	
-116	355	
-117	825	
-118	285	
-119	251	
-120	225	.001 pW
-121	200	
-122	180	
-123	160	
-124	141	
-125	128	
-126	117	
-127	100	
-128	90	
-129	80	
-130	71	.1 fW
-131	61	
-132	58	
-133	50	
-134	45	
-135	40	
-136	35	
-137	33	
-138	29	
-139	25	
-140	23	.01 fW



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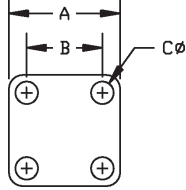


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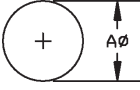
RETURN LOSS CONVERSION TABLE

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

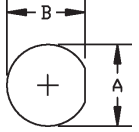
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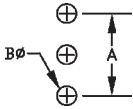
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A02	.687	.500	.109
A03	.687	.500	#3-56 TAP
A04	.687	.500	.125
A05	1.000	.718	.125
A06	.750	.531	.140
A07	.750	.531	.125
A08	1.190	.906	.125
A09	.687	.500	#4-40 TAP
A10	.687	.500	.136
A11	1.250	.975	.147
A12	2.000	1.440	.257
A13	1.000	.718	.141
A14	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
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A21	1.250	.975	.142
A22	.375	.232	.093



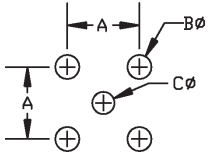
CODE	A
F01	.250
F02	.500
F03	.630
F04	1.200
F05	.380
F06	.450
F07	.200
F08	.362
F09	.220
F10	.317
F11	4.83mm
F12	.390



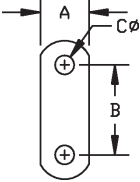
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B01	.195	.177
B02	.250	.235
B03	.330	.295
B04	.380	.350
B05	.440	.410
B06	.512	.480
B07	.760	.720
B08	.565	.537
B09	.314	.296
B10	.140	.126
B11	.695	.655
B12	.625	.575
B13	.405	.361
B14	.277	.252
B15	.630	.596
B16	.317	.285
B17	.284	.268



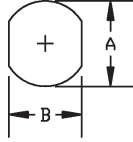
CODE	A	B
J01	.200	.046



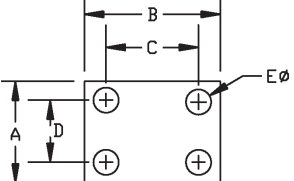
CODE	A	B	C
D01	.200	.067	.062
D02	.200	.067	.046
D03	.100	.031	.031
D04	.200	.052	.052
D05	.260	.067	.043
D06	.200	.052	.047
D07	.200	.055	.043
D08	.200	.067	.035
D09	.200	.055	.028
D10	.200	.055	.035
D11	.320	.091	.031
D12	.400	.062	.062
D13	.320	.091	.091
D14	.340	.091	.043
D15	.164	.067	.091
D16	.500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



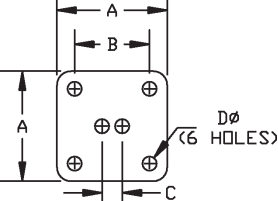
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C01	.223	.481	.102
C02	.260	.481	.102
C03	.192	.328	.067
C04	.640	1.000	.125
C05	.275	.481	.102
C06	.230	.354	.067
C07	.188	.328	.093



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



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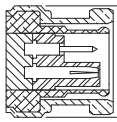
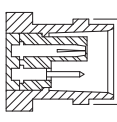
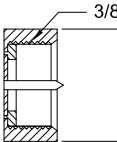
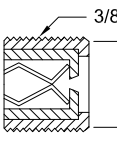
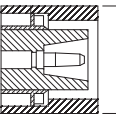
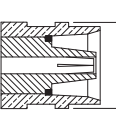
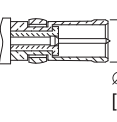
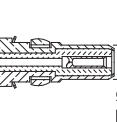
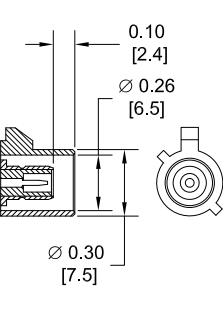
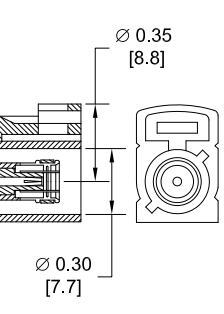
















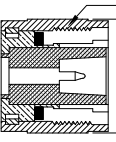
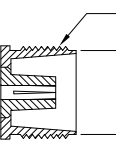
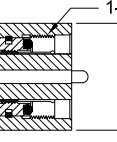
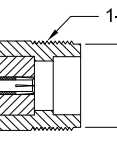
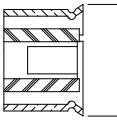
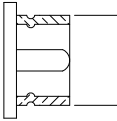
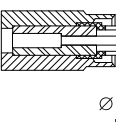
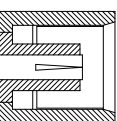
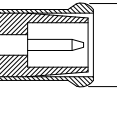
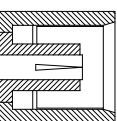
1.0/2.3 SLIDE ON	PLUG	
	JACK	
1.85 mm**	MALE	
	FEMALE	
2.4 mm**	MALE	
	FEMALE	
2.92 mm*	MALE	
	FEMALE	
3.5 mm*	MALE	
	FEMALE	
7 mm	MALE	
	FEMALE	
7/16	PLUG	
	JACK	
3/4-20 TWINAX	MALE	
	FEMALE	
10 - 32	MALE	
	FEMALE	
BANANA	PLUG	
	JACK	
BNC	MALE	
	FEMALE	
REVERSE POLARITY BNC	MALE	
	FEMALE	
75 OHM BNC	MALE	
	FEMALE	
1.0/2.3 SNAP ON	PLUG	
	JACK	
1.6/56	PLUG	
	JACK	

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

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

CONNECTOR IDENTIFIER

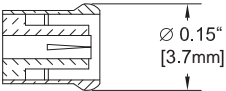
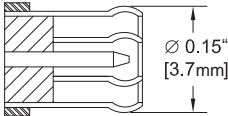
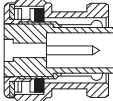
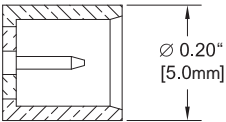
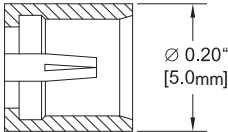
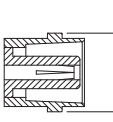
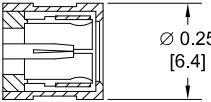
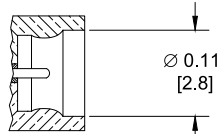
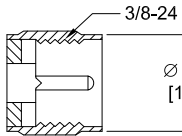
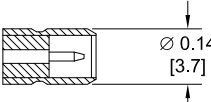
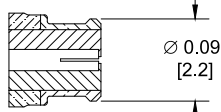
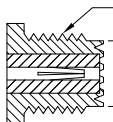
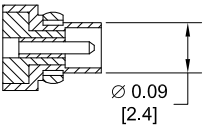
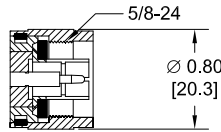
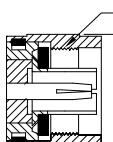
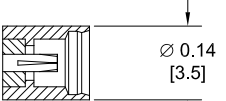
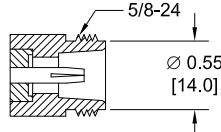
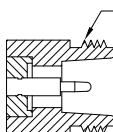
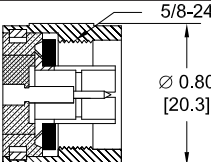
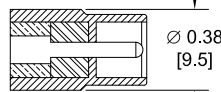
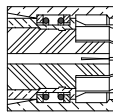
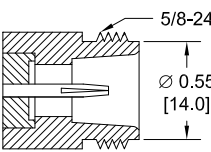
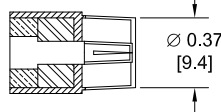
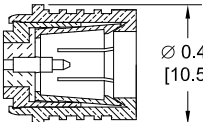
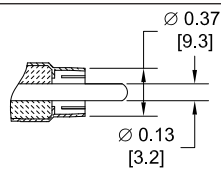
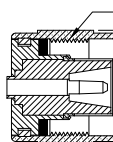
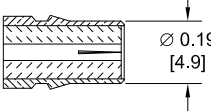
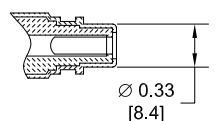
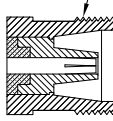
SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

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



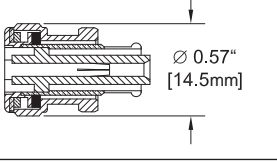
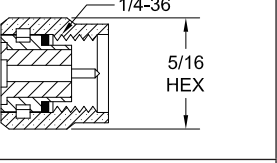
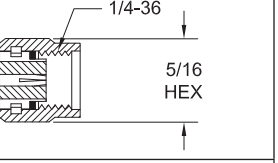
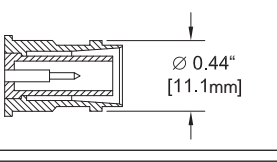
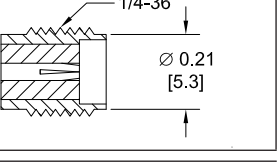
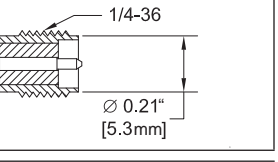
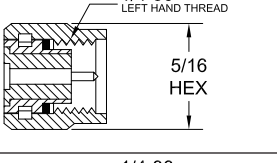
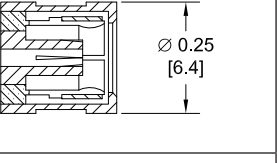
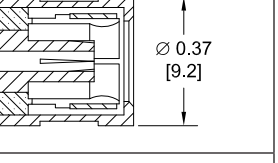
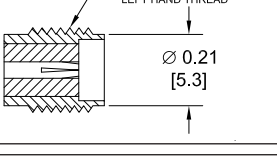
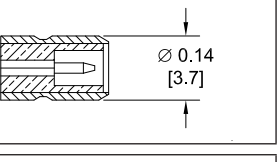
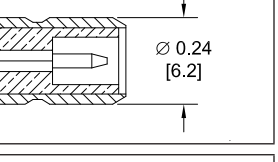
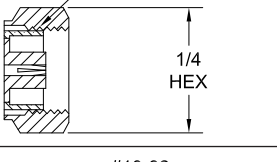
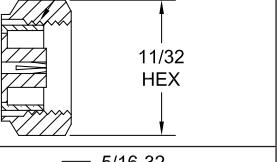
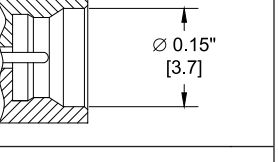
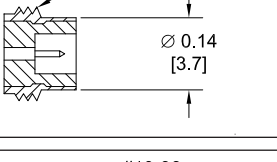
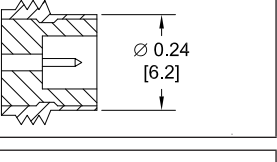
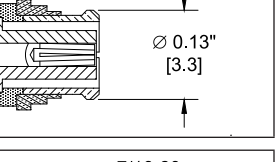
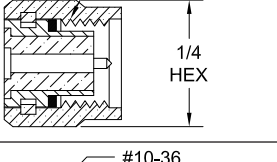
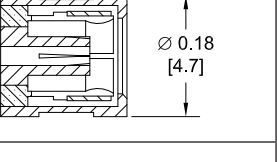
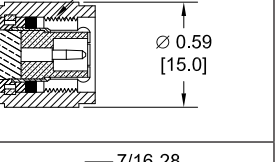
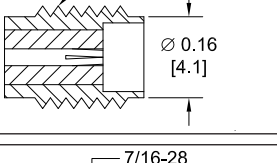
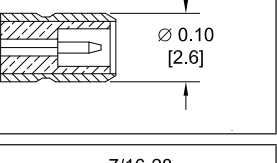
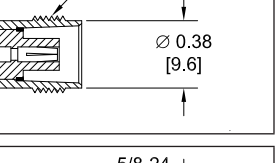
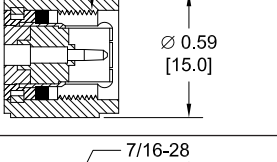
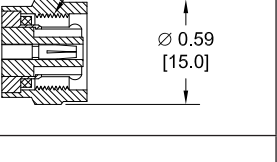
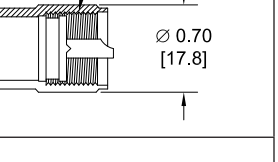
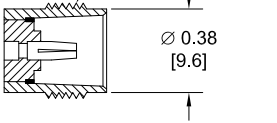
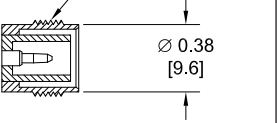
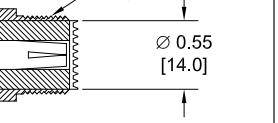
CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

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

CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

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

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



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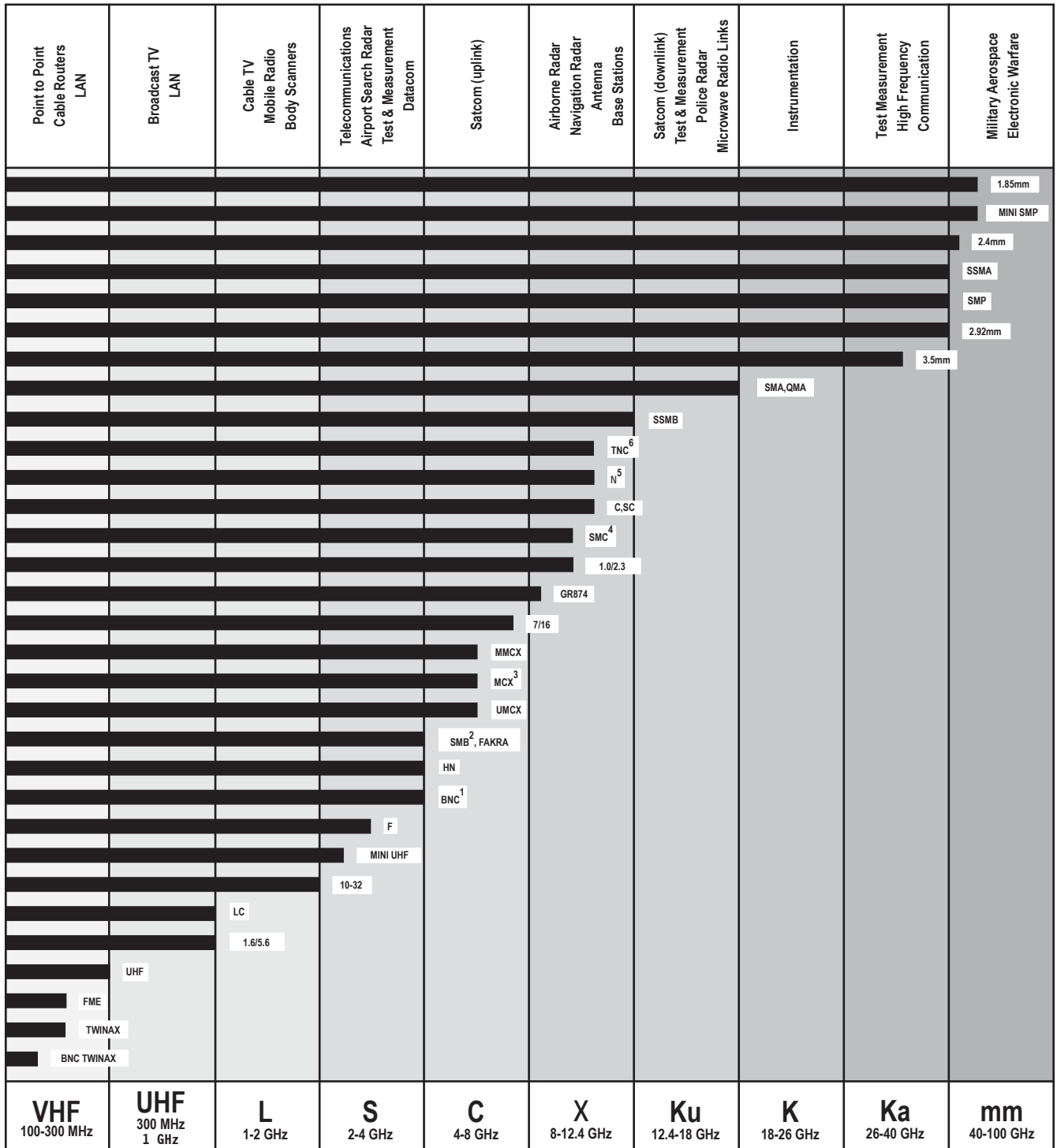


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Notes:

- 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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