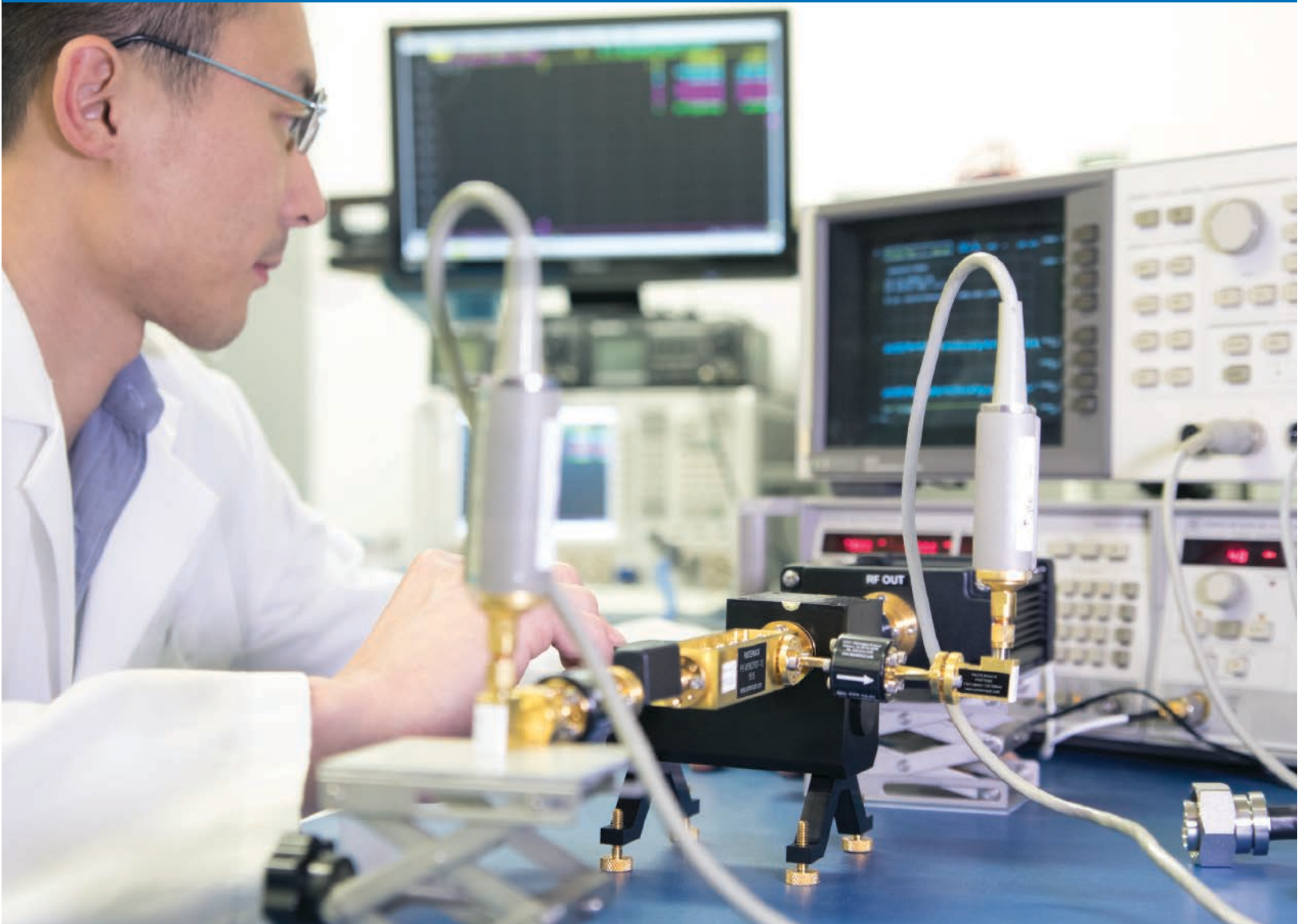


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RF Product Guide 2019

Couplers and Hybrids



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Single Directional

4.1/9.5 Mini DIN Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1	2-4	5-9	10+	ROW
698-2,700	6	200 Watt	20	PE2CP1059	\$479.32	\$460.15	\$440.97	\$421.80	1
	10			PE2CP1063	\$475.84	\$456.81	\$437.77	\$418.74	2
	15			PE2CP1067	\$528.73	\$507.58	\$486.43	\$465.28	3
	20			PE2CP1071	\$475.84	\$456.81	\$437.77	\$418.74	4
	30			PE2CP1075	\$475.84	\$456.81	\$437.77	\$418.74	5

4.3-10 Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1	2-4	5-9	10+	ROW
698-2,700	6	200 Watt	20	PE2CP1060	\$521.00	\$500.16	\$479.32	\$458.48	6
	10			PE2CP1064	\$521.00	\$500.16	\$479.32	\$458.48	7
	15			PE2CP1068	\$521.00	\$500.16	\$479.32	\$458.48	8
	20			PE2CP1072	\$521.00	\$500.16	\$479.32	\$458.48	9
	30			PE2CP1076	\$521.00	\$500.16	\$479.32	\$458.48	10

7/16 DIN Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1	2-4	5-9	10+	ROW
698-2,700	6	200 Watt	20	PE2CP1058	\$503.63	\$483.48	\$463.34	\$443.19	11
	10			PE2CP1062	\$559.60	\$537.22	\$514.83	\$492.45	12
	15			PE2CP1066	\$559.60	\$537.22	\$514.83	\$492.45	13
	20			PE2CP1070	\$503.63	\$483.48	\$463.34	\$443.19	14
	30			PE2CP1074	\$503.63	\$483.48	\$463.34	\$443.19	15

N Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1 Pc. Price	See Web for Volume Pricing			ROW
500-2,000	30	600 Watt	18	PE2240-30	Call	Call	Call	Call	16

PasterFact™:

Electromagnetic radiation is made when an atom absorbs energy, which causes electrons to change positions, resulting in waves of energy.

Couplers & Hybrids

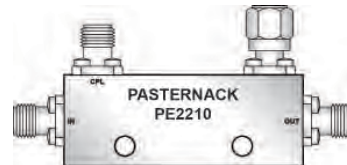
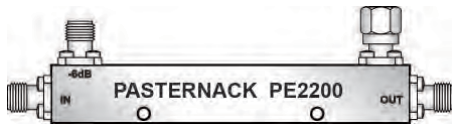
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N Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
698-2,700	6	200 Watt	20	PE2CP1057	\$451.53	See Web for Volume Pricing	17
	10			PE2CP1061	\$501.72		18
	15			PE2CP1065	\$501.72		19
	20			PE2CP1069	\$501.72		20
	30			PE2CP1073	\$501.72		21
800-2,500	6	60 Watt	20	PE2CP1023-6	\$488.70		22
	10			PE2237-6	\$418.38		23
	20			PE2CP1023-10	\$490.14		24
	30			PE2237-10	\$391.01		25
				PE2CP1023-20	\$489.74		26
PE2CP1023-30		\$490.14	26				
1,000-2,000	30	600 Watt	28	PE2226-30	\$1,211.76	27	
1,000-4,000			15	PE2228A-30	\$1,692.99	28	
1,000-8,000			20	PE2239-30	\$1,861.12	29	
1,000-11,000				PE2236-35	\$2,442.19	30	
1,500-4,500				18	PE2231-30	\$1,603.21	31
2,000-4,000	PE2227-30	\$1,415.45	32				
4,000-8,000	PE2230-30	\$1,208.13	33				
4,000-12,000	15	PE2235-30	\$1,564.67		34		
5,000-11,000		PE2234-30	\$991.78		35		
7,000-11,000	16	PE2233-30	\$1,566.21	36			

SMA Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
500-1,000	10	50 Watt	25	PE2200-10	\$356.69	See Web for Volume Pricing	37
	20			PE2200-20	\$396.77		37
	30			PE2200-30	\$418.87		37
500-2,000	6		23	PE2208-6	\$467.47		38
	10			PE2208-10	\$467.47		38
	20			PE2208-20	\$480.95		38
500-3,000	6		18	PE2242-06	\$268.53		39
				PE2242A-06	\$259.84		40
				PE2242-10	\$268.53		40
	10			PE2242-20	\$268.53		41
				PE2242A-20	\$268.53		42
		PE2242-30		\$268.53	42		
500-18,000	30	30 Watt	PE2242A-30	\$259.84	44		
			PE2243-10	\$1,426.60	See Web for Volume Pricing	45	
			PE2243-16	\$1,405.51			
			PE2243-20	\$1,427.33			
			PE2243-30	\$1,426.60			
600-4,000	10	18	PE2213-10	\$691.30			46
	20		PE2CP1024-6	\$478.28	47		
800-2,500	6	20	PE2238-6	\$418.38	48		
			PE2CP1025-10	\$482.42	49		
			PE2CP1025-20	\$448.06	49		
			PE2CP1024-30	\$490.14	50		
			PE2238-30	\$418.38	51		
1,000-2,000	6	25	PE2201-6	\$340.54	See Web for Volume Pricing	52	
			PE2201-10	\$343.48			
			PE2201-20	\$342.82			
			PE2201-30	\$352.69			
1,000-4,000	6	23	PE2209-6	\$478.28	See Web for Volume Pricing	53	
			PE2209-10	\$488.70			
			PE2209-20	\$499.12			
1,000-18,000	16	25 Watt	12	PE2214-16	\$1,700.06	54	

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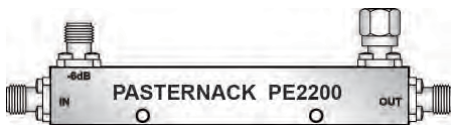


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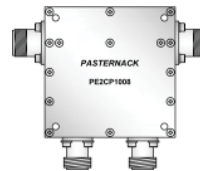
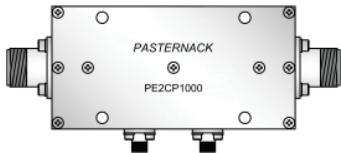
SMA Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW						
2,000-4,000	6	50 Watt	22	PE2202-6	\$342.82	See Web for Volume Pricing	55						
	10			PE2202-10	\$343.65								
	20			PE2202-20	\$354.07								
	30			PE2202-30	\$353.24								
2,000-8,000	6	4 Watt	20	PE2210-6	\$468.87		See Web for Volume Pricing	56					
	10			PE2210-10	\$468.87								
	20			PE2210-20	\$479.29								
2,000-18,000	6	25 Watt	12	PE2215-6	\$1,699.51			See Web for Volume Pricing	57				
10	PE2215-10			\$1,934.60									
2,000-18,400	20	50 Watt	20	PE2203-10	\$418.87				See Web for Volume Pricing	58			
2,600-5,200	20			PE2203-20	\$447.02								
	30			PE2203-30	\$438.49								
	6			PE2204-6	\$353.24								
4,000-8,000	10	50 Watt	20	PE2204-10	\$353.24					See Web for Volume Pricing	59		
	20			PE2204-20	\$354.17								
	30			PE2204-30	\$368.72								
	6			PE2211-6	\$457.44								
4,000-12,400	10	10 Watt	17	PE2211-10	\$457.44						See Web for Volume Pricing	60	
	20			PE2211-20	\$468.69								
	30			PE2211-30	\$468.69								
4,000-18,000	10	50 Watt	12	PE2216-10	\$691.30	See Web for Volume Pricing						61	
	20	50 Watt		PE2216-20	\$695.45								
7,000-12,400	6	50 Watt	17	PE2205-6	\$447.02							See Web for Volume Pricing	62
	10			PE2205-10	\$447.02								
	20			PE2205-20	\$453.35								
	30			PE2205-30	\$453.35								
7,000-18,000	10	4 Watt	15	PE2212-10	\$571.43		See Web for Volume Pricing						63
7,500-16,000	6			4 Watt	PE2206-6			\$423.68					
	10	50 Watt	PE2206-10	\$459.27									
	20	50 Watt	PE2206-20	\$490.79									
	30	50 Watt	PE2206-30	\$508.42									
12,400-18,000	6	50 Watt	15	PE2207-6	\$447.02			See Web for Volume Pricing	64				
	10			PE2207-10	\$447.02								
	20			PE2207-20	\$457.44								
	30			PE2207-30	\$463.12								

Dual Directional

N Connectors

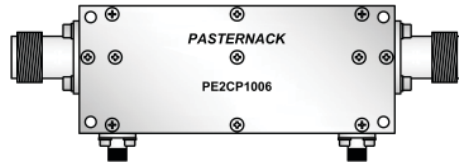


Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1	2-4	5-9	10+	ROW
2-30	50	2500 Watt	22	PE2CP1000	\$2,896.68	\$2,780.81	\$2,664.95	\$2,549.08	66
20-500		500 Watt		PE2CP1002	\$1,686.39	\$1,618.93	\$1,551.48	\$1,484.02	67
		1000 Watt		PE2CP1003	\$2,253.54	\$2,163.40	\$2,073.26	\$1,983.12	68
20-1,000		500 Watt		PE2CP1005	\$1,674.95	\$1,607.95	\$1,540.95	\$1,473.96	69
80-1,000	40	500 Watt	20	PE2CP1007	\$1,640.77	\$1,575.14	\$1,509.51	\$1,443.88	70
				PE2CP1008	\$2,430.78	\$2,333.55	\$2,236.32	\$2,139.09	71
				PE2CP1021	\$1,371.25	\$1,316.40	\$1,261.55	\$1,206.70	72
100-500	40	500 Watt	20	PE2CP1010	\$1,538.25	\$1,476.72	\$1,415.19	\$1,353.66	73
				PE2CP1020	\$2,278.86	\$2,187.71	\$2,096.55	\$2,005.40	74
500-2,500	40	200 Watt	18	PE2CP1011	\$1,060.79	\$1,018.36	\$975.93	\$933.50	75
				PE2CP1012	\$1,587.93	\$1,524.41	\$1,460.90	\$1,397.38	76
500-3,000	20	200 Watt	18	PE2CP1013	\$1,709.17	\$1,640.80	\$1,572.44	\$1,504.07	77
800-2,500		500 Watt		PE2CP1015	\$1,645.32	\$1,579.51	\$1,513.69	\$1,447.88	78
800-4,200		200 Watt		PE2CP1016	\$1,958.84	\$1,880.49	\$1,802.13	\$1,723.78	79
2,000-6,000		200 Watt		PE2CP1019	\$1,435.34	\$1,377.93	\$1,320.51	\$1,263.10	80

Couplers & Hybrids

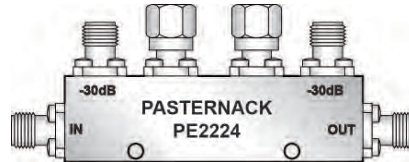
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SC Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1	2-4	5-9	10+	ROW
20-1,000	50	1000 Watt	20	PE2CP1006	\$2,606.98	\$2,502.70	\$2,398.42	\$2,294.14	81
800-4,200	40	600 Watt	18	PE2CP1017	\$2,785.27	\$2,673.86	\$2,562.45	\$2,451.04	82

SMA Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Directivity (dB)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW	
20-520	50	200 Watt	20	PE2CP1001	\$1,078.49	See Web for Volume Pricing	83	
20-1,000				PE2CP1004	\$1,353.08		84	
100-500	40	10 Watt	22	PE2CP1009	\$1,238.33		85	
500-1,000	10			PE2217-10	\$697.10		86	
	20			PE2217-20	\$708.33			
800-2,500	30	50 Watt	PE2217-30	\$708.33	87			
	40	200 Watt	PE2CP1014	\$1,069.49				
	10	10 Watt	PE2218-10	\$708.33				
1,000-2,000	20	50 Watt	22	PE2218-20	\$681.08		88	
	30			PE2218-30	\$717.94			
	10			10 Watt	PE2219-10			\$594.54
2,000-4,000	20	50 Watt	20	PE2219-20	\$728.36		89	
	20	100 Watt	16	PE2CP1018	\$1,058.65			
2,600-5,200	10	10 Watt	18	PE2220-10	\$681.08			91
	20	50 Watt		PE2220-20	\$681.08			
	30	50 Watt		PE2220-30	\$649.25			
4,000-8,000	10	10 Watt	16	PE2221-10	\$707.52			92
	20	50 Watt		PE2221-20	\$707.52			
	10	10 Watt		PE2222-10	\$681.08			
7,000-12,400	30	50 Watt	15	PE2222-30	\$681.08			93
	10	10 Watt		PE2223-10	\$681.08			
8,000-16,000	20	50 Watt	15	PE2223-20	\$708.33	94		
	30			PE2223-30	\$707.52			
	20			PE2224-20	\$651.97			
12,400-18,000	20	50 Watt	15	PE2224-30	\$811.57	95		
	30							

90 Degree Hybrids

SMA Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Minimum Isolation (dB)	Model No	1 Pc. Price	See Web for Volume Pricing	ROW	
500-1,000	4	100 Watt	28	PE2050	\$488.70	See Web for Volume Pricing	1	
1,000-2,000				PE2051	\$453.79		2	
2,000-4,000		50 Watt	22	PE2052	\$444.63		3	
2,000-8,000				30 Watt	17		PE2058	\$505.19
4,000-8,000		100 Watt	18				PE2054	\$513.92
4,000-12,400				PE2059	\$698.32		6	
6,000-12,400		3	30 Watt	17	PE2055		\$547.74	7
7,000-18,000					PE2CP1022		\$664.74	8
7,500-16,000		40 Watt	15	15	PE2056A		\$553.80	9
12,000-18,000					PE2057		\$480.95	10

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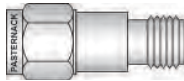
Pin Connectors



Frequency Range (MHz.)	Coupling (dB)	Maximum Power	Minimum Isolation (dB)	Model No	1	2-4	5-9	10+	R O W
20-1,000		50 Watt	16	PE2CP1026	\$807.84	\$775.53	\$743.21	\$710.90	11
		150 Watt		PE2CP1027	\$914.41	\$877.83	\$841.26	\$804.68	12
80-1,000		250 Watt		PE2CP1028	\$641.79	\$616.12	\$590.45	\$564.78	13
100-500		150 Watt		PE2CP1029	\$300.03	\$288.03	\$276.03	\$264.03	14
130-180		200 Watt	20	PE2CP1032	\$92.01	\$88.33	\$84.65	\$80.97	15
		800 Watt	18	PE2CP1033	\$395.33	\$379.52	\$363.70	\$347.89	16
225-400		250 Watt	20	PE2CP1034	\$109.30	\$104.93	\$100.56	\$96.18	17
225-450		400 Watt		PE2CP1035	\$152.41	\$146.31	\$140.22	\$134.12	18
		800 Watt	PE2CP1036	\$395.33	\$379.52	\$363.70	\$347.89	19	
400-1,000		200 Watt	19	PE2CP1037	\$81.39	\$78.13	\$74.88	\$71.62	20
		400 Watt	20	PE2CP1038	\$117.71	\$113.00	\$108.29	\$103.58	21
		800 Watt		PE2CP1039	\$460.43	\$442.01	\$423.60	\$405.18	22
500-2,500		150 Watt	18	PE2CP1040	\$184.87	\$177.48	\$170.08	\$162.69	23
		200 Watt	17	PE2CP1041	\$281.34	\$270.09	\$258.83	\$247.58	24
		300 Watt		PE2CP1042	\$400.50	\$384.48	\$368.46	\$352.44	25
500-3,000		125 Watt	18	PE2CP1043	\$184.87	\$177.48	\$170.08	\$162.69	26
800-1,600		200 Watt	17	PE2CP1044	\$335.89	\$322.45	\$309.02	\$295.58	27
800-2,500			20	PE2CP1045	\$90.63	\$87.00	\$83.38	\$79.75	28
800-2,700		400 Watt	18	PE2CP1046	\$144.44	\$138.66	\$132.88	\$127.11	29
960-1,220			17	PE2CP1047	\$678.65	\$651.50	\$624.36	\$597.21	30
1,000-2,000		125 Watt	20	PE2CP1048	\$81.39	\$78.13	\$74.88	\$71.62	31
		200 Watt		PE2CP1049	\$81.39	\$78.13	\$74.88	\$71.62	32
		400 Watt	18	PE2CP1050	\$108.46	\$104.12	\$99.78	\$95.44	33
1,000-3,000		1000 Watt	18	PE2CP1051	\$460.43	\$442.01	\$423.60	\$405.18	34
		150 Watt		PE2CP1052	\$95.35	\$91.54	\$87.72	\$83.91	35
1,000-4,200		450 Watt	16	PE2CP1053	\$174.41	\$167.43	\$160.46	\$153.48	36
2,000-4,000		80 Watt	18	PE2CP1054	\$159.07	\$152.71	\$146.34	\$139.98	37
2,000-6,000				100 Watt	PE2CP1055	\$81.39	\$78.13	\$74.88	\$71.62
				PE2CP1056	\$85.54	\$82.12	\$78.70	\$75.28	39

DC Blocks

DC BLOCKS



2.92mm



SMA



F

Impedance	Connector	Frequency Range (MHz.)	Type	Max. V (V)	Model No	1-24	25-49	50-99	100+	R O W
50 Ohm	2.4mm	100 - 50,000	Inner	75	PE8237	\$1,448.37	\$1,346.98	\$1,245.60	\$1,158.70	40
			Outer		PE8238	\$1,855.03	\$1,725.18	\$1,595.33	\$1,484.02	41
			Inner/Outer		PE8239	\$1,912.05	\$1,778.21	\$1,644.36	\$1,529.64	42
	2.92mm	10 - 26,500	Inner	200	PE8222	\$290.90	\$270.54	\$250.17	\$232.72	43
			Outer		PE8223	\$344.80	\$320.66	\$296.53	\$275.84	44
			Inner/Outer		PE8224	\$451.53	\$419.92	\$388.32	\$361.22	45
		10 - 40,000	Inner	200	PE8225	\$712.06	\$662.22	\$612.37	\$569.65	46
			Outer		PE8226	\$1,508.91	\$1,403.29	\$1,297.66	\$1,207.13	47
			Inner/Outer		PE8227	\$1,188.67	\$1,105.46	\$1,022.26	\$950.94	48
	BNC	10 - 4,000	Inner	200	PE8216	\$187.85	\$174.70	\$161.55	\$150.28	49
			Outer		PE8217	\$260.50	\$242.27	\$224.03	\$208.40	50
			Inner/Outer		PE8218	\$303.93	\$282.65	\$261.38	\$243.14	51
75 Ohm	100 - 4,000	Inner	200	PE8231	\$272.55	\$253.47	\$234.39	\$218.04	52	
		Outer		PE8232	\$148.88	\$138.46	\$128.04	\$119.10	53	
		Inner/Outer		PE8233	\$360.84	\$335.58	\$310.32	\$288.67	54	
50 Ohm	F	10 - 2,000	Inner	200	PE8240	\$106.38	\$98.93	\$91.49	\$85.10	55
			Outer		PE8241	\$190.28	\$176.96	\$163.64	\$152.22	56
			Inner/Outer		PE8242	\$209.26	\$194.61	\$179.96	\$167.41	57
N	10 - 18,000	Inner		PE8213	\$143.51	\$133.46	\$123.42	\$114.81	58	
		Outer		PE8214	\$232.86	\$216.56	\$200.26	\$186.29	59	
		Inner/Outer		PE8215	\$258.97	\$240.84	\$222.71	\$207.18	60	

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.



Free Shipping Available
via UPS Ground
to USA & Canada



Technical
Support
(866) 727-8376



Same-Day Shipping,
Even Custom
Cable Assemblies

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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PE15A5037	50	90	PE19XR1039	199	61	PE2075	180	12	PE2242A-20	165	44	PE20DV1032	181	43	PE3075		79 65
PE15A5037F	50	91	PE19XR1040	199	61	PE2076	180	12	PE2243-10	165	45	PE20DV1033	181	42	PE3075LF		79 66
PE15A5038	51	96	PE19XR1041	199	61	PE2077	180	22	PE2243-20	165	45	PE20DV1034	181	42	PE3078		Web
PE15A5038F	51	97	PE19XR1042	199	61	PE2078	180	21	PE2243-30	165	45	PE20DV1034A	181	61	PE3078LF		92 62
PE15A5039	50	87	PE19XR1043	199	61	PE2079	180	21	PE2243-16	165	45	PE20DV1035	181	61	PE3079		Web
PE15A5040	50	80	PE19XR1044	199	61	PE2080	181	54	PE2243-16	165	45	PE20DV1036	181	68	PE3080		Web
PE15A5041	50	80	PE19XR1045	199	61	PE2081	180	19	PE2243-16	165	45	PE20DV1037	181	68	PE3080		Web
PE15A5042	50	86	PE19XR1046	199	61	PE2082	180	19	PE2243-16	165	45	PE20DV1038	181	80	PE3081LF		79 67
PE15A5043	51	12	PE19XR1047	199	61	PE2083	180	9	PE2243-16	165	45	PE20DV1038A	181	79	PE3082		Web
PE15A5044	51	11	PE19XR1048	199	61	PE2084	180	7	PE2243-16	165	45	PE20DV1039	181	79	PE3083		Web
PE15A5047	51	98	PE19XR1049	199	61	PE2085	180	7	PE2243-16	165	45	PE20DV1040	180	24	PE3085		Web
PE15A5048	49	50	PE19XR1050	199	61	PE2086	181	75	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5049	51	8	PE19XR1051	199	61	PE2087	180	7	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5050	51	8	PE19XR1052	199	61	PE2088	181	45	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5051	49	57	PE19XR1053	199	61	PE2089	181	45	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5052	51	10	PE19XR1054	199	61	PE2090	181	45	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5053	51	9	PE19XR1055	199	61	PE2091	181	78	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5054	49	65	PE19XR1056	199	61	PE2092	181	44	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5055	51	15	PE19XR1057	199	61	PE2093	181	59	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5056	46	33	PE19XR1058	199	61	PE2094	181	59	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5057	46	35	PE19XR1059	199	61	PE2095	181	77	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5058	46	36	PE19XR1060	199	61	PE2096	181	77	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5059	46	37	PE19XR1061	199	61	PE2097	181	77	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A50615	46	34	PE19XR1062	199	61	PE2098	181	77	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063000	47	56	PE19XR1063	199	61	PE2099	181	77	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063001	47	59	PE19XR1064	199	61	PE2100	181	77	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063002	47	69	PE19XR1065	199	61	PE2101-6	165	52	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063003	47	70	PE19XR1066	199	61	PE2200-10	165	37	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063004	48	68	PE19XR1067	199	61	PE2200-20	165	37	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063005	48	82	PE19XR1068	199	61	PE2200-30	165	37	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063006	48	83	PE19XR1069	199	61	PE2201-6	165	52	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063007	48	95	PE19XR1070	199	61	PE2201-10	165	52	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A5063008	48	99	PE19XR1071	199	61	PE2201-20	165	52	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A7000	51	14	PE19XR1072	199	61	PE2201-30	165	52	PE2243-16	165	45	PE20DV1041	180	15	PE3087		79 56
PE15A8000	45																

50-OHM CONVERSION TABLE

(dBm - volts- watts)

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

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

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

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



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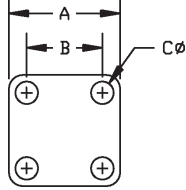


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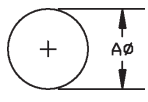
RETURN LOSS CONVERSION TABLE

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

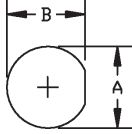
MOUNTING HOLES



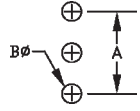
CODE	A	B	C
A01	.500	.340	.102
A02	.687	.500	.109
A03	.687	.500	#3-56 TAP
A04	.687	.500	.125
A05	1.000	.718	.125
A06	.750	.531	.140
A07	.750	.531	.125
A08	1.190	.906	.125
A09	.687	.500	#4-40 TAP
A10	.687	.500	.136
A11	1.250	.975	.147
A12	2.000	1.440	.257
A13	1.000	.718	.141
A14	1.000	.718	.144
A15	.687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



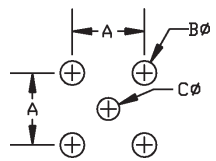
CODE	A
F01	.250
F02	.500
F03	.630
F04	1.200
F05	.380
F06	.450
F07	.200
F08	.362
F09	.220
F10	.317
F11	4.83mm
F12	.390



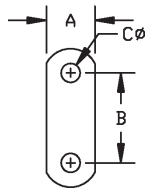
CODE	A	B
B01	.195	.177
B02	.250	.235
B03	.330	.295
B04	.380	.350
B05	.440	.410
B06	.512	.480
B07	.760	.720
B08	.565	.537
B09	.314	.296
B10	.140	.126
B11	.695	.655
B12	.625	.575
B13	.405	.361
B14	.277	.252
B15	.630	.596
B16	.317	.285
B17	.284	.268



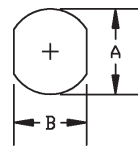
CODE	A	B
J01	.200	.046



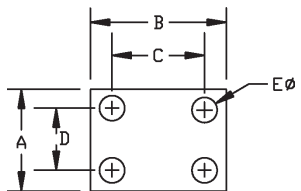
CODE	A	B	C
D01	.200	.067	.062
D02	.200	.067	.046
D03	.100	.031	.031
D04	.200	.052	.052
D05	.260	.067	.043
D06	.200	.052	.047
D07	.200	.055	.043
D08	.200	.067	.035
D09	.200	.055	.028
D10	.200	.055	.035
D11	.320	.091	.031
D12	.400	.062	.062
D13	.320	.091	.091
D14	.340	.091	.043
D15	.164	.067	.091
D16	.500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



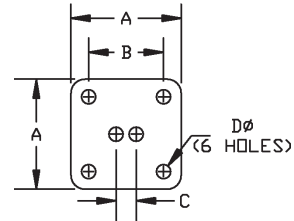
CODE	A	B	C
C01	.223	.481	.102
C02	.260	.481	.102
C03	.192	.328	.067
C04	.640	1.000	.125
C05	.275	.481	.102
C06	.230	.354	.067
C07	.188	.328	.093



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



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



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



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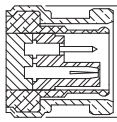
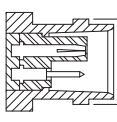
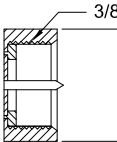
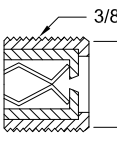
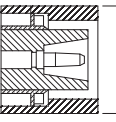
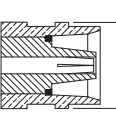
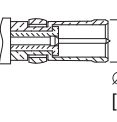
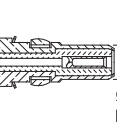
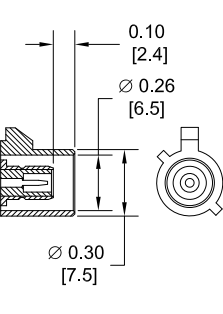
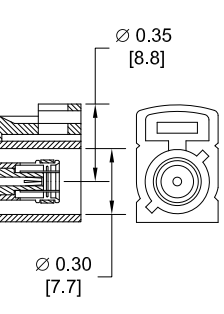
















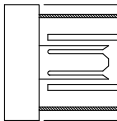

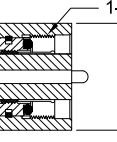
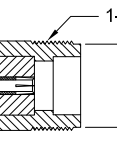
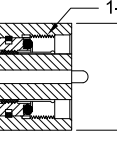
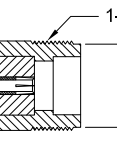
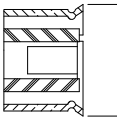
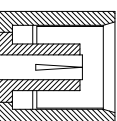
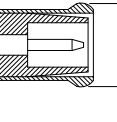
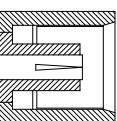
1.0/2.3 SLIDE ON	PLUG		1.0/2.3 SNAP ON	PLUG		1.6/56	PLUG	
	JACK			JACK			JACK	
1.85 mm**	MALE		2.4 mm**	MALE		2.92 mm**	MALE	
	FEMALE			FEMALE			FEMALE	
3.5 mm*	MALE		7 mm	PLUG		7/16	PLUG	
	FEMALE			JACK			JACK	
3/4-20 TWINAX	MALE		10-32	MALE		BANANA	PLUG	
	FEMALE			FEMALE			JACK	
BNC	MALE		REVERSE POLARITY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

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

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

CONNECTOR IDENTIFIER

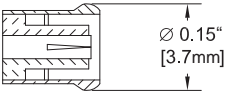
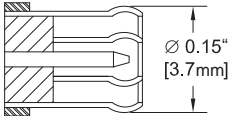
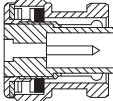
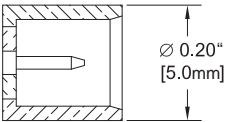
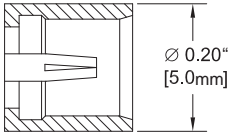
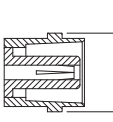
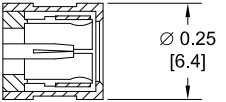
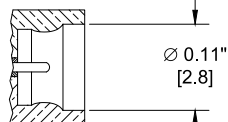
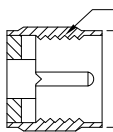
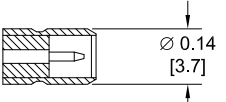
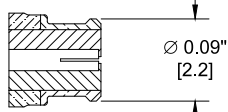
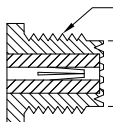
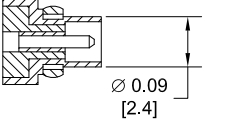
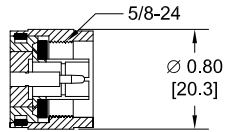
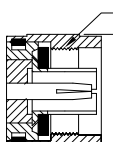
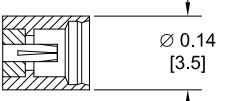
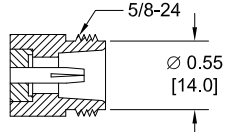
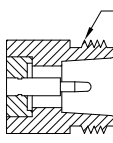
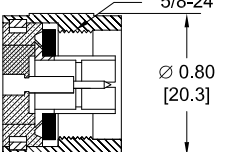
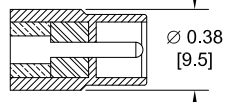
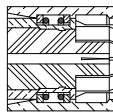
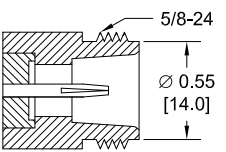
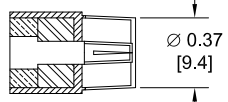
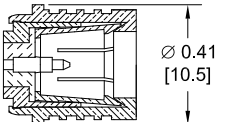
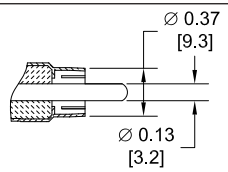
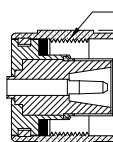
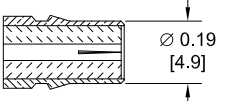
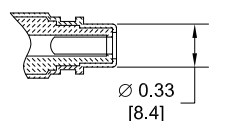
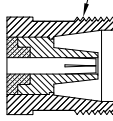
SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

BNC TWINAX	PLUG	 Ø 0.57" [14.5mm]				
	JACK	 Ø 0.44" [11.1mm]				
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]				



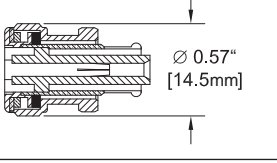
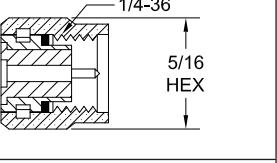
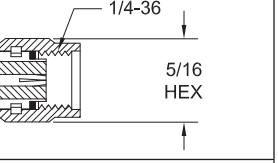
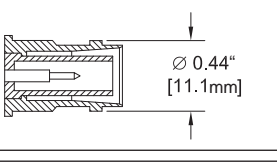
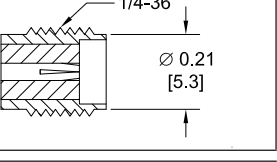
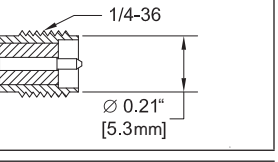
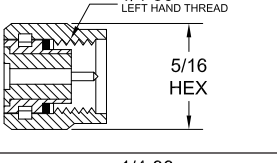
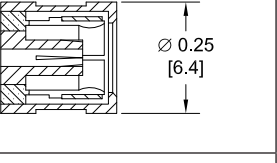
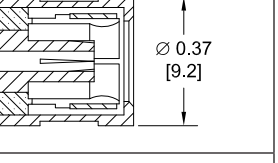
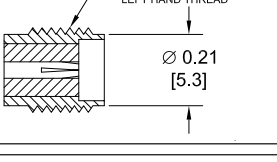
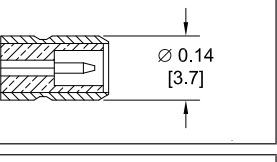
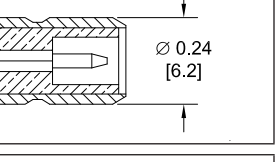
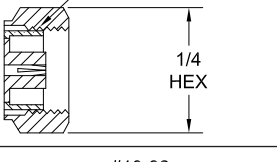
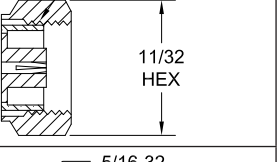
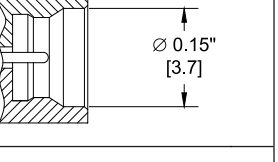
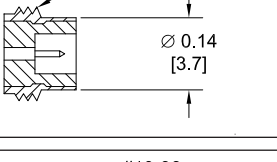
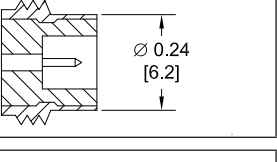
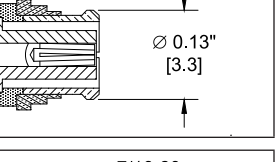
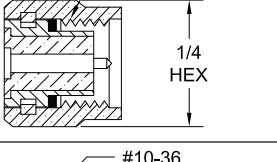
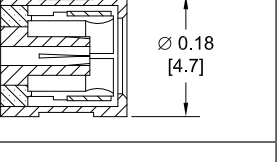
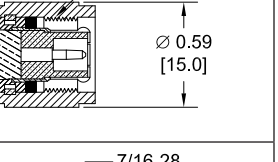
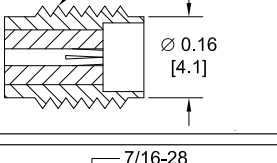
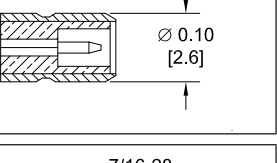
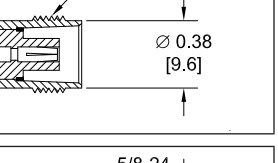
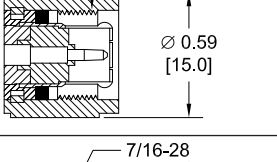
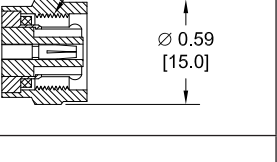
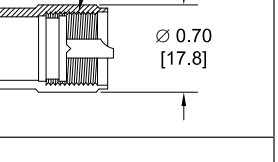
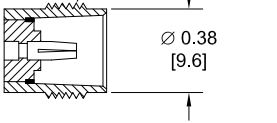
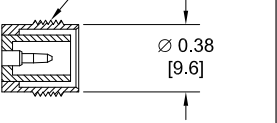
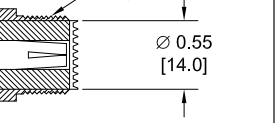
CONNECTOR IDENTIFIER

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

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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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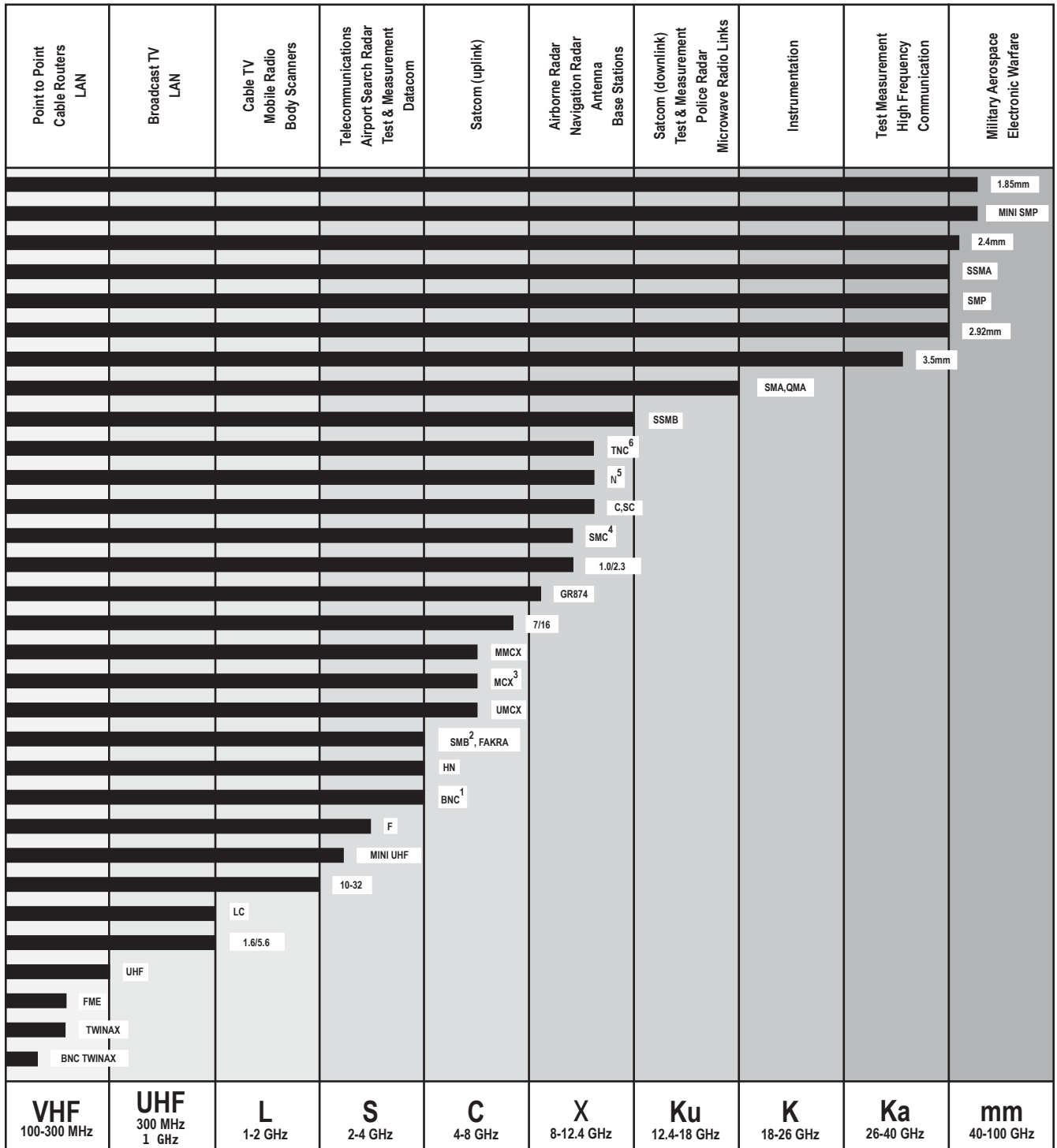


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Notes:

- 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