

TEST/CHARACTERISTICS	MIL-C-39012 A	VALUES/REMARKS
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### ELECTRICAL CHARACTERISTICS

Impedance		50 Ω			
Frequency range		DC-4 GHz			
V.S.W.R. (typ.)	Frequency	3-14	1 GHz	2.5 GHz	4 GHz
Straight models	cable group:	.085"	1.12	1.22	1.33
			2	1.10	1.22
Right angle models		.085"	1.12	1.22	1.35
			2	1.10	1.18
Insertion loss (typ.)	cable group:	.085"	0.05	0.07	0.15
			2	0.05	0.10
Straight models		.085"	0.05	0.05	0.05
			2	0.05	0.07
RF leakage		3-26	-55 dB min from 2 to 3 GHz		
Insulation resistance		3-11	1000 MΩ min		
Contact resistance		3-16	Initial	After test	
	center contact (mΩ)		6	8	
	outer contact (mΩ)		1	1.5	
Working voltage	Cable group		2/50	2.6/50	
	at sea level		250 V rms	335 V rms	
	at 70000 ft (21000 m)		60 V rms	85 V rms	
Dielectric withstanding voltage		3-17	2/50	2.6/50	
	Cable group		750 V rms	1000 V rms	
	at sea level		185 V rms	250 V rms	
	at 70000 ft (21000 m)				
RF withstanding voltage (5 MHz sine wave)		3-23	2/50	2.6/50	
	Cable group		500 V rms	700 V rms	
	at sea level				

### MECHANICAL CHARACTERISTICS

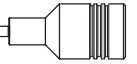
Durability		3-15	500 matings		
Mating / unmating		3-5-1	axial force : 62 N max (14 Lbf)		
Cabling retention force	cable group:	3-24	58 N (13 Lbf)		
	2/50		110 N (25 Lbf)		
	2.6/50				
Center contact retention			Axial : 10 N (2.25 Lbf)		

### ENVIRONMENTAL CHARACTERISTICS

Temperature range	standard models		-65° C / + 165° C		
	hermetic sealed models		-65° C / +165° C		
	models for semi-rigid cables		-65° C / +105° C		
Combined climate tests			MIL-STD-202. method 102. condition C		
Thermal shock		3-20	MIL-STD-202. method 107. condition B		
High temperature endurance			MIL-STD-202. method 108		
Corrosion (salt spray)		3-13	MIL-STD-202. method 101. condition B, 5%		

All dimensions are given in millimeters

Standard packaging : 100 pieces (Same part number). For unit packaging, add "W" after the P/N.



### ENVIRONMENTAL CHARACTERISTICS

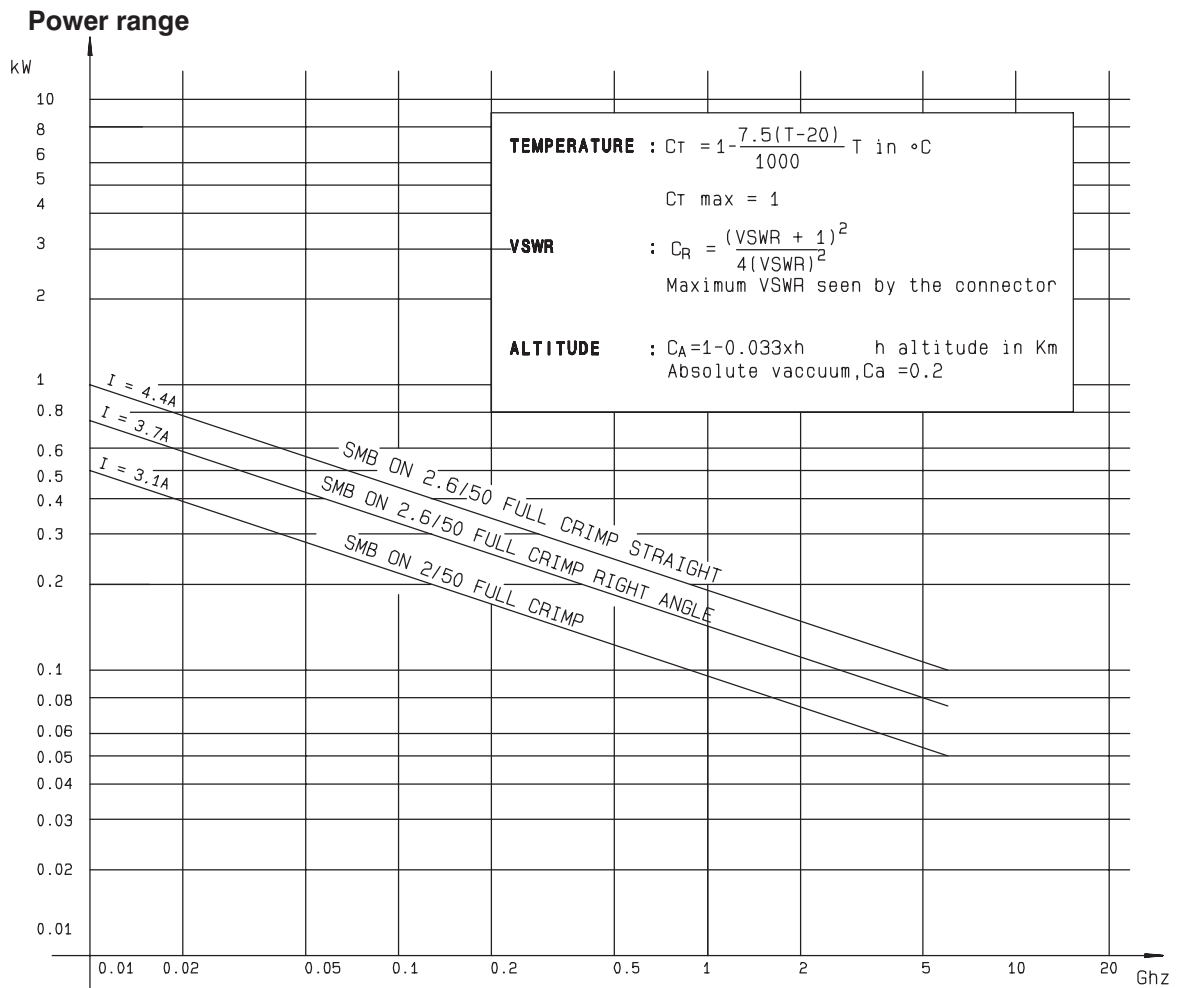
Vibrations	3-18	MIL-STD-202. method 204. condition B, 15g
Shocks	3-19	MIL-STD-202. method 213. condition B, 75g
Low pressure	3-22	MIL-STD-202. method 105. condition C
Hermetic seal		applied vacuum $10^{-6}$ mm of Hg (Torr) leakage rate $< 10^{-6}$ atm/cm <sup>3</sup> /s

### MATERIALS

Body and center pin contact		half hard brass as per QQ-B-626
Center socket contact		beryllium copper as per QQ-C-530
Ferrules		brass
Insulators		PTFE teflon
Gaskets		silicone elastomer

### PLATING

Body		gold or nickel
Center contacts		gold



All dimensions are given in millimeters

Standard packaging : 100 pieces (Same part number). For unit packaging, add "W" after the P/N.

## ADAPTERS

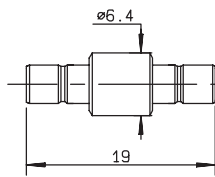


Fig. 1

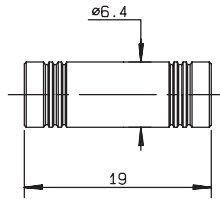


Fig. 2

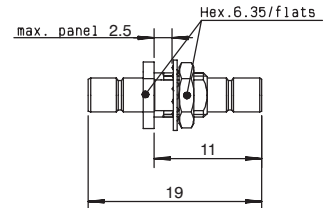


Fig. 3

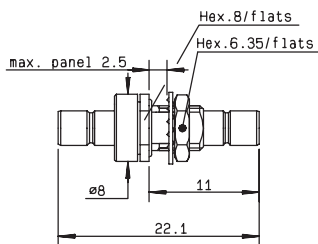


Fig. 4

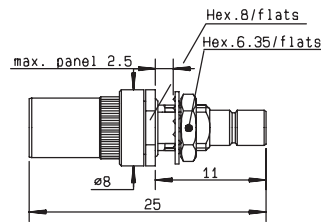


Fig. 5

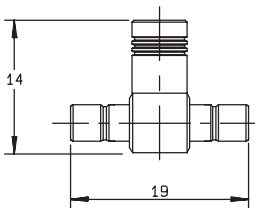


Fig. 6

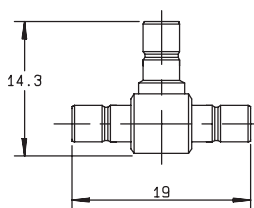


Fig. 7

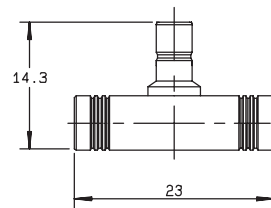
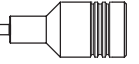


Fig. 8

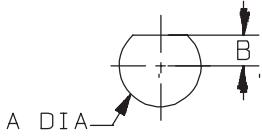
part number	fig.	captive center contact	panel	finish	note
R114 703 000	1	yes		Gold	male - male
R114 704 000	2	yes		Gold	female - female
R114 720 000	3	yes	P01	Gold	bulkhead male - male
R114 720 020	3	yes	P01	Nickel	bulkhead male - male
R114 753 000	4	yes	P01	Gold	hermetically sealed male - male
R114 754 000*●	5	yes	P01	Gold	hermetically sealed female - male
R114 780 000	6	yes		Gold	tee female / male - male
R114 780 020	6	yes		Nickel	tee female / male - male
R114 781 000	7	yes		Gold	tee male / male - male
R114 783 000*●	8	yes		Gold	tee male / female - female

● upon request

\* packaging: unit

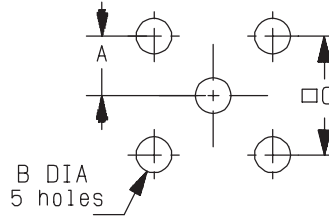


**P01**



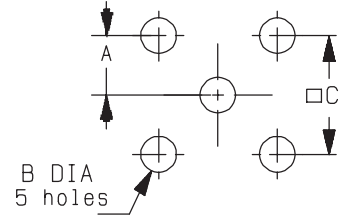
MM		
	maxi	mini
A	5	4.9
B	2.08	2.01

**P02**



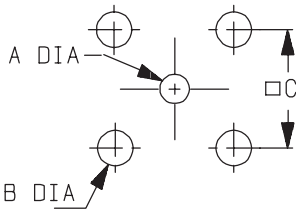
MM		
	maxi	mini
A	2.565	2.515
B	1.09	0.94
C	5.105	5.055

**P03**



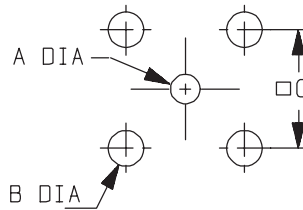
MM		
	maxi	mini
A	2.59	2.49
B	1.4	1.3
C	5.16	5

**P04**



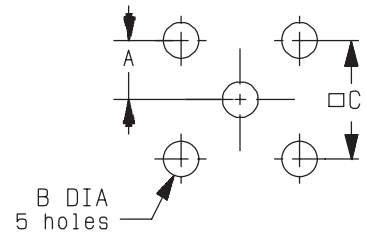
MM		
	maxi	mini
A	1.29	1.19
B	1.8	1.7
C	5.13	5.03

**P05**



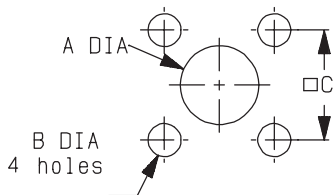
MM		
	maxi	mini
A	1.40	1.14
B	1.78	1.52
C	5.16	5

**P06**



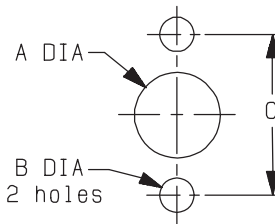
MM		
	maxi	mini
A	2.56	2.52
B	1.5	1.4
C	5.13	5.03

**P07**



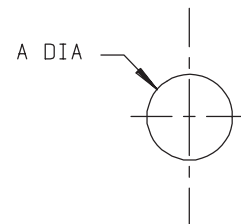
MM		
	maxi	mini
A	3.3	3.2
B	2.3	2.1
C	7.05	6.95

**P08**



MM		
	maxi	mini
A	2.95	2.9
B	2.8	2.6
C	12.3	12.1

**P09**



MM		
	maxi	mini
A	6.45	6.05