



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.) Straight models	cable group: Frequency .085" 2 2.6	3-14	1 GHz 1.12 1.10 1.12	2.5 GHz 1.22 1.22 1.22	4 GHz 1.33 1.33 1.35
Right angle models	.085" 2		1.10 1.10	1.18 1.20	1.26 1.25
Insertion loss (typ.) Straight models	cable group: .085" 2 2.6	3-27	0.05 0.05 0.05	0.07 0.10 0.05	0.15 0.25 0.05
Right angle models	.085"		0.05	0.07	0.12
RF leakage		3-26	-55 dB min from 2 to 3 GHz		
Insulation resistance		3-11	1000 MΩ min		
Contact resistance	center contact (mΩ) outer contact (mΩ)	3-16	Initial 6 1	After test 8 1.5	
Working voltage	Cable group at sea level at 70000 ft (21000 m)		2/50 250 V rms 60 V rms	2.6/50 335 V rms 85 V rms	
Dielectric withstanding voltage	Cable group at sea level at 70000 ft (21000 m)	3-17	2/50 750 V rms 185 V rms	2.6/50 1000 V rms 250 V rms	
RF withstanding voltage (5 MHz sine wave)	Cable group at sea level	3-23	2/50 500 V rms	2.6/50 700 V rms	

## MECHANICAL CHARACTERISTICS

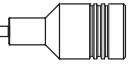
Durability		3-15	500 matings		
Mating / unmating		3-5-1	axial force : 62 N max (14 Lbf)		
Cabling retention force	cable group: 2/50 2.6/50	3-24	58 N (13 Lbf) 110 N (25 Lbf)		
Center contact retention			Axial : 10 N (2.25 Lbf)		

## ENVIRONMENTAL CHARACTERISTICS

Temperature range	standard models hermetic sealed models models for semi-rigid cables		-65 °C / + 165 °C -65 °C / +165 °C -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

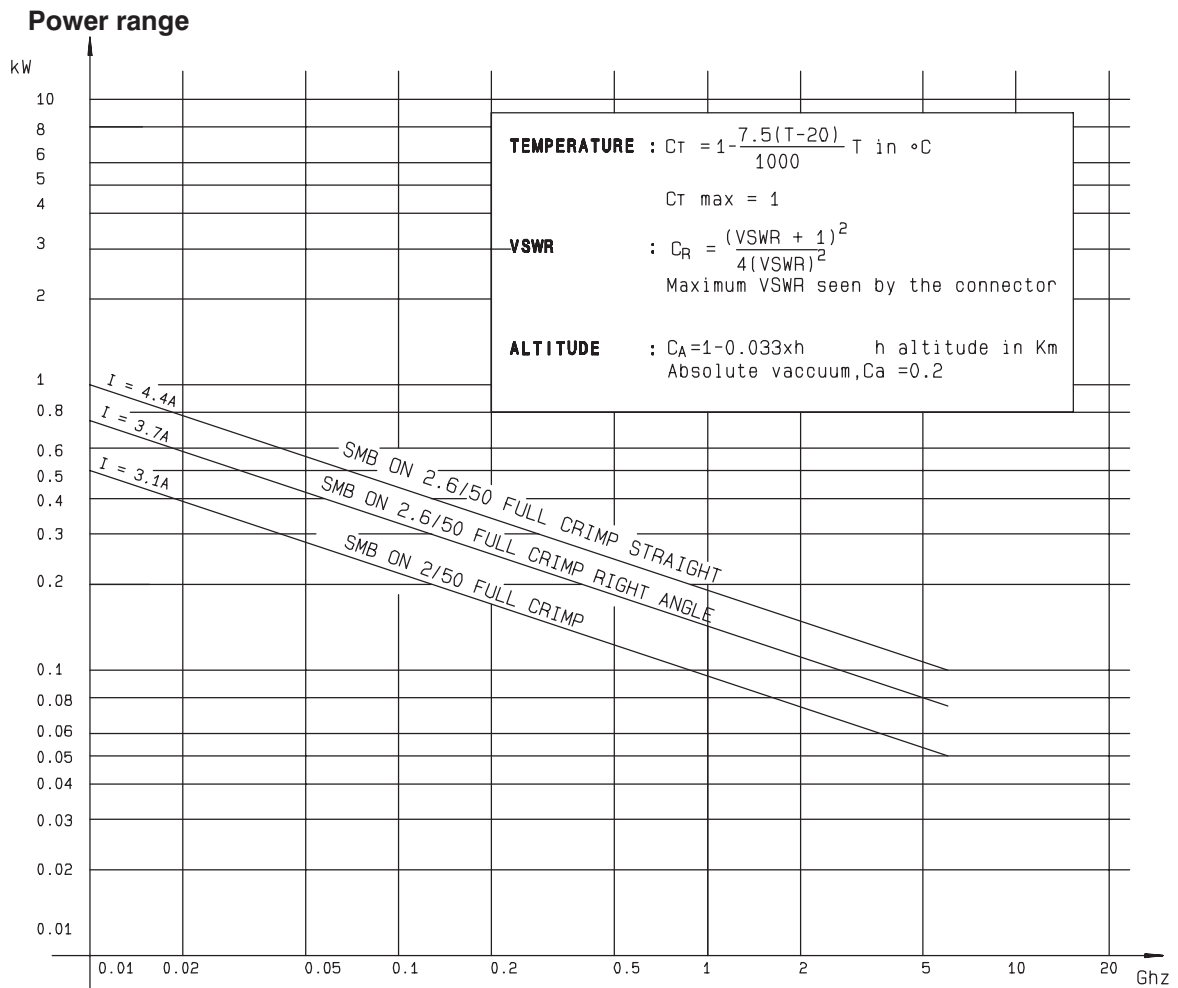
Vibrations	3-18	MIL-STD-202. method 204. condition B, 15g
Shocks	3-19	MIL-STD-202. method 213. condition B, 75g
Low pressure	3-22	MIL-STD-202. method 105. condition C
Hermetic seal		applied vacuum $10^{-6}$ mm of Hg (Torr) leakage rate $< 10^{-6}$ atm/cm <sup>3</sup> /s

### 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.



## STRAIGHT PCB RECEPTACLES

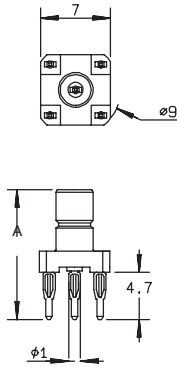


Fig. 1

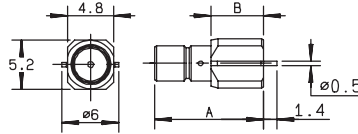


Fig. 2

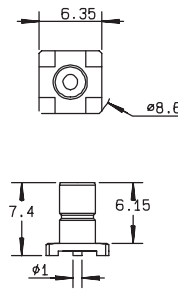


Fig. 3

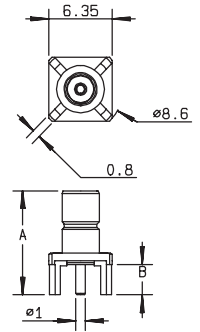


Fig. 4

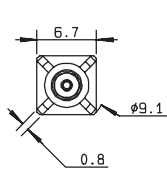


Fig. 5

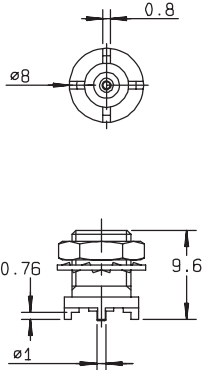


Fig. 6

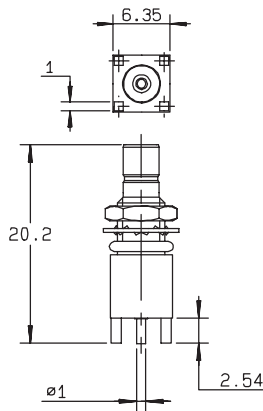


Fig. 7

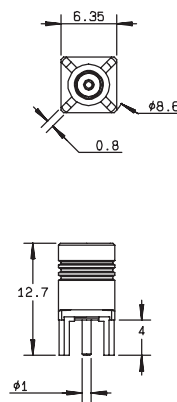


Fig. 8

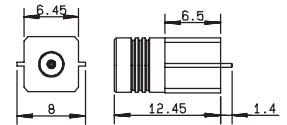
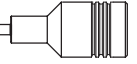


Fig. 9

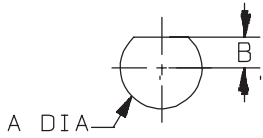
part number	fig.	dimensions		captive center contact	assembly	panel	finish	note
		A	B					
R114 416 000●	1	12.1		yes	M16	P02	Gold	press fit pins
R114 416 020	1	12.9		yes	M16	P02	Nickel	press fit pins
R114 423 000	2	11.5	5.5	yes		M12	Gold	SMT edge card
R114 423 800●	2	12.5	6.5	yes		M12	Gold	SMT edge card / packaging 1000 reel
R114 423 810	2	11.5	5.5	yes		M12	Gold	SMT edge card / packaging 500 reel
R114 423 820	2	11.5	5.5	yes		M12	Gold	SMT edge card / packaging 100 reel
R114 424 000	3			yes		M12	Gold	SMT
R114 424 100	3			yes		M12	Gold	SMT / packaging 100 reel
R114 424 120	3			yes		M12	Gold	SMT / packaging 500 reel
R114 426 000	4	11.4	4	yes		P03	Gold	
R114 426 020	4	11.4	4	yes		P03	Nickel	
R114 426 030	4	11.4	4	yes		P03	Ni+Tin-lead	
R114 426 042	4	10.3	2.9	yes		P03	Nickel	
R114 426 300*●	4	11.4	4	yes		P04	Gold	thin legs
R114 426 530	5			yes		P05	Gold	harpon legs
R114 426 850●	4	11.4	4	yes		P03	Gold	packaging 75 tube
R114 560 200*●	6			yes		P06	Gold	rear mount
R114 590 035*●	7			yes		P03	nickel	rear mount / panel seal
R114 425 000*●	8			yes		P06	Gold	female
R114 425 003●	8			yes		P06	Gold	female
R114 444 800●	9			yes	M12		Gold	female/SMT edge card/packaging 800 reel

● upon request

\* packaging: unit

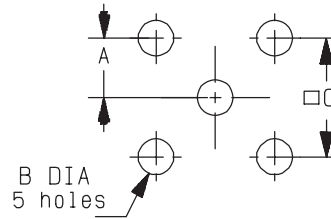


**P01**



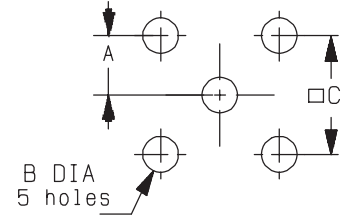
MM		
	maxi	mini
A	5	4.9
B	2.08	2.01

**P02**



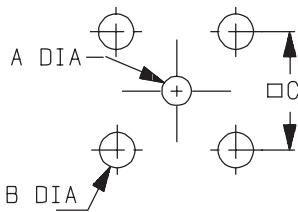
MM		
	maxi	mini
A	2.565	2.515
B	1.09	0.94
C	5.105	5.055

**P03**



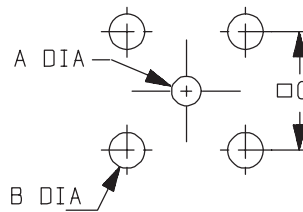
MM		
	maxi	mini
A	2.59	2.49
B	1.4	1.3
C	5.16	5

**P04**



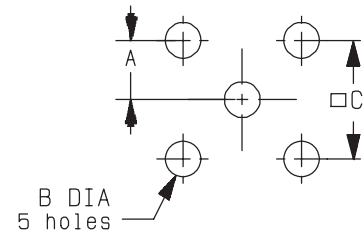
MM		
	maxi	mini
A	1.29	1.19
B	1.8	1.7
C	5.13	5.03

**P05**



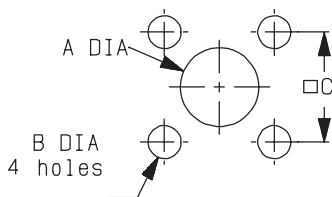
MM		
	maxi	mini
A	1.40	1.14
B	1.78	1.52
C	5.16	5

**P06**



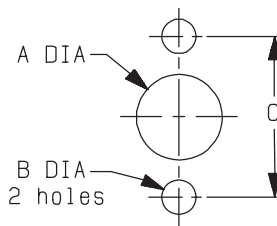
MM		
	maxi	mini
A	2.56	2.52
B	1.5	1.4
C	5.13	5.03

**P07**



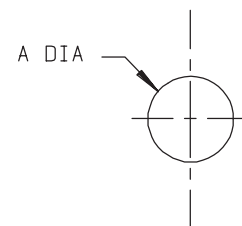
MM		
	maxi	mini
A	3.3	3.2
B	2.3	2.1
C	7.05	6.95

**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