

## SPECIFICATIONS

	SMB & SMC	SSMA	SMA (note 3)	PTNC (note 4)
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Frequency Range	DC to 4 GHz	DC to 26 GHz	DC to 18 GHz	DC to 15 GHz
Voltage Rating; Connector RG 178, 196 RG 188, 316 RG 402 RG 405	250 V RMS 335 V RMS	500 V RMS 335 V RMS	500 V RMS 335 V RMS	500 V RMS
Temp Range (°C)	-65 to + 165	-65 to + 165	-65 to + 165	-65 to + 165
SWR* (Connector) RG 178,196 RG 188, 316	1.30 + F(.040) 1.25 + F(.040)	1.05 + 1(.005)	1.05 + F(.005)	1.05 + F(.005)
Insertion Loss*	0.3 dB @ 1.5GHz	[.04 × √F] dB	[.03 × √F] dB	[.04 × √F] dB
RF Leakage* (min)	- 55 dB @ 2-3 GHz	- (100 - F) dB	- (100 - F) dB	- (110 - F) dB
RF High Potential # Connector RG 178, 196 RG 188, 316 RG 402 RG 405	500 V RMS MAX 700 V RMS MAX	1000 V RMS Max 670 V RMS Max	1000 V RMS Max 670 V RMS Max	1000 V RMS
Insulation Resistance	1000 Megohm Min	MIL-STD-202 Method 302	Cond. B [5000 MEGOHMS	Min.]
Max Cntct Resistance Center Contact Outer Contact	6 MilliOhms 1 MilliOhm	4.0 MilliOhms 2.0 MilliOhms	3.0 MilliOhms 2.0 MilliOhms	1.25 MilliOhms 0.2 MilliOhms
Center Contact Axial Force (max) Female Sockets only	40 oz max insertion 1.0 min withdrawal	not spec'd	not spec'd	not spec'd
Durability (min)	500 Cycles	500 Cycles	500 Cycles	500 Cycles
Engagement and disengagement force	14 lbs Max longitudinal	2.0 inch- lbs max	2.0 inch- lbs max	2.0 inch- lbs max
Dielectric Withstanding voltage (Volts RMS)	Method 301 of MIL-STD-202	1500 V RG 402 1000 V RG 405	1500 V RG 402 1000 V RG 405	1500 V (Connector Only)
Barometric Pressure (note 2) RG 402 RG 405	250 V RMS	375 V RMS 250 V RMS	375 V RMS 250 V RMS	
Temp. Cycling (note 1)	- 65 to + 200 °C	- 65 to + 115 °C	- 65 to + 115 °C	
Captivation (min)	6.0 lbs Axial	not spec'd	not spec'd	not spec'd
Vibration	MIL-STD-202 Method 204 Cond. D. [20 G's]			n/a
Shock	MIL-STD-202 Method 213 Cond. I. [100 G's]			n/a
Corrosion	MIL-STD-202 Method 101 Cond. B. [48 Hrs.]			n/a
Moisture Resistance	MIL-STD-202 Method 106 Less step 7b			n/a

\* F = Frequency in GHz. # at 5 MHz

Note 1: MIL-STD 202 Method 102 Cond C for SMB & SMC, Method 107 Cond. B for SSMA, SMA, & PTNC.

Note 2: MIL-STD-202 Cond. C. 70,000 ft.

Note 3: SMA specifications apply to part numbers; 2902-6001, 2906-6072, 2902-6007, 2906-6005, 2902-6042, 2902-6077, 2902-6080, 2902-6075, 2902-6059, 2906-6002, 2906-6027, 2902-6071, 2906-6056.

Note 4: PTNC specifications apply to part number 4580-6001.

## SPECIFICATIONS

	HFTNC (note 5)	TYPE N	TYPE PN	BNC
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Frequency Range	DC to 18 GHz	DC to 12.4 GHz	DC to 12.4 GHz	DC to 4 GHz (note 9)
Voltage Rating: Connector	500 V RMS	500 V RMS	1000 V RMS	500 V RMS
Temp Range (C)	-65 to +165	-65 to +165	-65 to +165	
SWR*(Connector)	1.05 +F(.007)	1.1 +F(.015)	1.07 +F(.007)	1.25 Max
Insertion Loss*	[.04 x $\sqrt{F}$ ] dB	[.05 x $\sqrt{F}$ ] dB	[.03 x $\sqrt{F}$ ] dB	
RF Leakage* (min.)	- (100-F) dB	- (100-F) dB	- (100-F) dB	
RF High Potential#	1000 V RMS	1000 V RMS	2000 V RMS	
Insulation Resistance	MIL-STD-202 Method 302 Cond. B [5000 MEGOHMS Min.]			
Max Cntct Resis. Center Contact Outer Contact	1.5 MilliOhms 0.2 MilliOhms	1.0 MilliOhms 0.2 MilliOhms	1.5 MilliOhms 0.2 MilliOhms	1.5 MilliOhms 0.2 MilliOhms
Center Contact Axial Force (max) Female Sockets only	not spec'd	not spec'd	not spec'd	not spec'd
Durability (min)	500 Cycles	500 Cycles	500 Cycles	
Engage and Disengagement torque	2.0 inch- lbs. max.	6.0 inch- lbs. max.	6.0 inch- lbs. max.	
Dielectric Withstanding voltage (Volts RMS)	1500 V RMS (note 6)	3000 V RMS (note 6)	1500 V RMS (note 6)	1500 V RMS (note 10)
Barometer Pressure (note 8)	375 V RMS	375 V RMS	750 V RMS	
Temp. Cycle (note 7)	(not spec'd)	(not spec'd)	(not spec'd)	(not spec'd)
Vibration	MIL-STD-202 Method 204 Cond. I.[20 G's]			
Shock	MIL-STD-202 Method 213 Cond. I.[100 G's]			
Corrosion	MIL-STD-202 Method 101 Cond. B.[48 Hrs.]			
Moisture Resistance	MIL-STD-202 Method 106 Less Step 7b			

\* F = Frequency in GHz # at 5 MHz

Note 5: Specifications apply to S/M 4550-6023

Note 6: MIL-STD-202 Method 301

Note 7: MIL-STD-202 Cond. C. 70,000 ft.

Note 8: MIL-STD-202 Method 106 Cond C 70,000 ft.

Note 9: May be used to 10 GHz in static applications.

Note 10: 1 minute, 60 Hz.