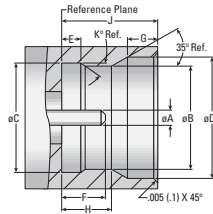


SMP Specifications

SMP Male Interface Dimensions



Dimension	Full Detent		Limited Detent		Smooth Bore	
	Min	Max	Min	Max	Min	Max
øA	0.014	0.016	0.014	0.016	0.014	0.016
øB	0.114	0.118	0.118	0.122	0.123	0.127
øC	0.124	0.126	0.124	0.126	N/A	N/A
øD	0.139	0.145	0.139	0.145	0.139	0.145
E	0.0205	0.0235	0.0205	0.0235	N/A	N/A
F	0.045	0.055	0.045	0.055	0.045	0.055
G	0.033	0.037	0.033	0.037	0.033	0.037
H	0.051	0.057	0.054	0.060	0.059	0.065
J	0.108	0.112	0.108	0.112	0.108	0.112
K	28°	32°	28°	32°	N/A	N/A

MATERIALS:

Body components: Beryllium copper per ASTM B196,
condition HT, or stainless steel per ASTM A582, type 303.
Contacts: Beryllium copper per ASTM B196, condition HT
Insulators: Teflon (PTFE) per ASTM D1710

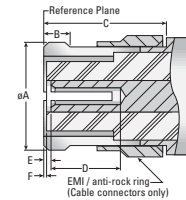
FINISH:

Center contacts: Gold-plated per MIL-G-45204, type II,
class 1, grade C
Other metal parts: Gold-plated (beryllium copper or stainless
steel) or passivated (stainless steel) to meet current
MIL-PRF-39012 corrosion requirements

ELECTRICAL:

Impedance: 50 Ω
Frequency range: DC–40 GHz
Voltage rating: 335 VRMS max at sea level;
65 VRMS max at 70,000 ft
Dielectric withstanding voltage: 500 VRMS min at sea level;
1 25 VRMS min at 70,000 ft
VSWR: DC–23 GHz: 1.10:1 max; 23–26.5 GHz: 1.15:1 max;
26.5–40 GHz: 1.35:1 max.*
Insertion Loss: 0.10Vf(GHz) (female bullets);
0.12Vf (GHz) (cable connectors)
Insulation resistance: 5,000 MΩ min
Contact resistance: Center contact: 6.0 mΩ max
Outer contact: 2.0 mΩs max
Corona Level: 190 V min at 70,000 ft
RF highpot: 325 VRMS at 5 MHz
RF leakage: -80 dB min to 3 GHz; -65 dB min. 3 GHz–26.5 GHz

SMP Female Interface Dimensions



Dimension	Cabled		Uncabled	
	Min	Max	Min	Max
øA	-	0.135	-	0.135
B	0.025	0.035	0.018	0.025
C	0.132	-	0.112	-
D	0.070	-	0.070	-
E	0.000	0.008	0.000	0.008
F	0.000	0.010	0.000	0.010

MECHANICAL:

Force to engage: Full detent, 15 lb
Limited detent, 10 lb
Smooth bore, 2 lb
Force to disengage: Full detent, 5 lb
Limited detent, 2 lb
Smooth bore, 0.5 lb
Contact retention: 1.5 lb min axial force
Axial misalignment: 0.000/0.010°
Radial misalignment: 0.010° centerline to centerline
(0.020° with special shrouds)
Durability: Full detent, 100 mating cycles min
Limited detent, 500 mating cycles min
Smooth bore, 1,000 mating cycles min

ENVIRONMENTAL (MIL-STD-202):

Temperature range: -65° C to +165° C
Vibration: Method 204, condition D
Mechanical shock: Method 213, condition I
Thermal shock: Method 107, condition B

*VSWR for P/N 5280-1502-000 "bullet" adapter.
Performance of other configurations may vary.
Contact factory for additional information.

These specifications change periodically with updates to
MIL-PRF-39012 requirements. Contact factory for latest
specifications.