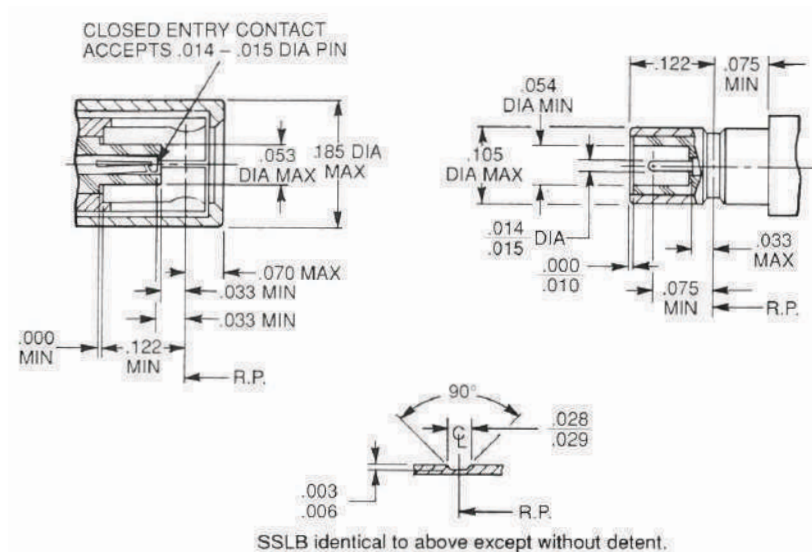


Interface Dimensions



SPECIFICATIONS MIL-PRF-39012

MATERIALS:

Female body components, center contacts: Beryllium copper per ASTM B196, condition HT

All other metal parts: Brass per ASTM B16, alloy 360, ½ hard

Insulators: Teflon TFE per ASTM-D-1710

FINISH:

Center contacts: Gold-plated per MIL-G-45204, type II, class 1, grade C

All other parts finished to meet MIL-PRF-39012 corrosion requirements.

ELECTRICAL:

Impedance: 50 Ω

Frequency range: DC-12.4 GHz

Voltage rating: 250 VRMS, sea level 60 VRMS, 70,000 ft

Insulation resistance: 1,000 MΩ min

VSWR:

Straight connector:

RG178: 1.25+[0.020×f (GHz)]

RG316: 1.30+[0.020×f (GHz)]

0.085" SR: 1.25+[0.015×f (GHz)]

Right angle connector:

RG178: 1.25+[0.030×f (GHz)]

RG316: 1.30+[0.030×f (GHz)]

0.085" SR: 1.25+[0.025×f (GHz)]

Contact resistance:

Center: 4.0 mΩ max initial

6.0 mΩ max after environment

Outer contact: 1.0 mΩ max initial

1.5 mΩ max after environment

Braid to body: 1.0 mΩ max initial

N/A after environment.

Corona level: 125 V at 70,000 ft

RF highpot: 400 VRMS at 5 MHz

RF leakage: -70 dB min at 2-3 GHz

Insertion loss: 0.30 dB max at 1.5 GHz

MECHANICAL:

Force to engage:

SSMB: Initial -6 lb max engagement, 2 lb min disengagement

After 500 matings -6 lb max engagement, 1 lb min disengagement

SSLB: Initial 6 lb max engagement, 0.5 lb min disengagement

Contact retention: 2 lb min axial force

Durability: 500 mating cycles

ENVIRONMENTAL: (per MIL-STD-202)

Temperature rating: -65° C to +165° C

Corrosion: Method 101, condition B, 5% salt solution

Vibration: Method 204,

SSMB, condition B (15G)

SSLB, condition A (10G)

Mechanical shock: Method 213, SSMB, condition B,

75 G at 6 ms at ½ sine SSLB, N/A