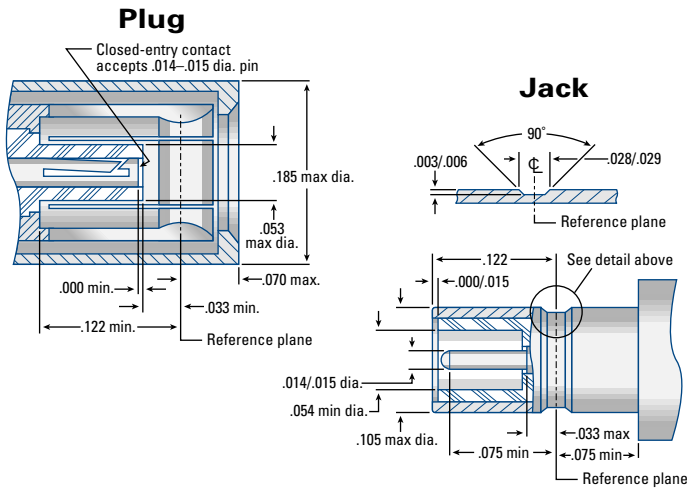
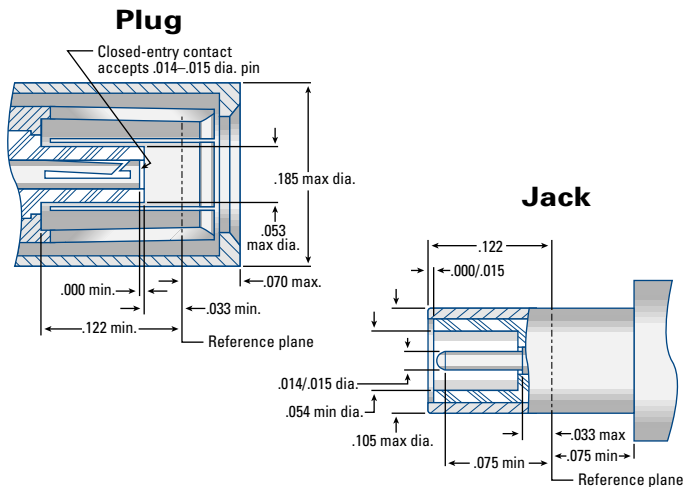


SSMB/SSLB/SSMC Specifications

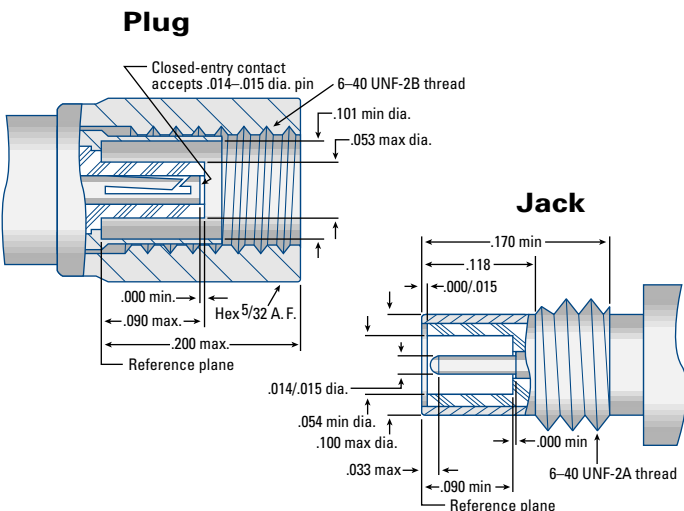
SSMB Interface Dimensions



SSLB Interface Dimensions



SSMC Interface Dimensions



Specifications

SSMB and SSLB (MIL-PRF-39012 as applicable)

Materials:

Plug spring fingers, center contacts: Beryllium copper per ASTM-B-196, Condition HT.
Crimp sleeves: Seamless copper tube per ASTM-B-75, type C12000, temper: light anneal 050.
Other metal parts: Brass per ASTM-B-16, Alloy 360, 1/2 hard.
Insulators: Teflon (TFE) per ASTM-D-1710.

Finish:

Center contacts: Gold plated per current revision of MIL-PRF-39012*
Other metal parts: Gold plated to meet current MIL-PRF-39012 corrosion requirements.*

Electrical:

Impedance: 50Ω. **Frequency range:** DC-12.4 GHz.
Voltage Rating: 250VRMS @ sea level; 60 VRMS @ 70,000 ft.
Insulation Resistance: 1,000 megohms minimum.

Contact Resistance:

Center contact: Initial: 4.0 milliohms maximum;
after environmental test conditions: 6.0 milliohms maximum.
Outer contact: Initial: 1.0 milliohms maximum;
after environmental test conditions: 1.5 milliohms maximum.

Cable braid to body: Initial: 1.0 milliohms maximum; after environmental test conditions: N/A.

Corona level: 125V @70,000 ft. **RF highpot:** 400 VRMS @ 5 MHz.

RF leakage: -70 dB min @ 2-3 GHz. **Insertion loss:** .30 dB max @ 1.5 GHz.

VSWR:	Cable	Straight connector	Right angle connector
RG-178	1.25 + (.020 x F[GHz])	1.25 + (.030 x F[GHz])	1.25 + (.030 x F[GHz])
RG-316	1.30 + (.020 x F[GHz])	1.30 + (.030 x F[GHz])	1.30 + (.030 x F[GHz])
.085" semi-rigid	1.25 + (.015 x F[GHz])	1.25 + (.025 x F[GHz])	1.25 + (.025 x F[GHz])

Mechanical:

Force to engage: *SSMB:* Initial, 6 pounds max engagement, 2 pounds min disengagement.
After 500 matings, 6 pounds max engagement, 1 pound min disengagement.
SSLB: Initial, 3 pounds max engagement, .5 pounds min disengagement.

Contact retention: 2 pounds min axial force.

Durability: 500 mating cycles.

Environmental (MIL-STD-202):

Temperature range: -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, 75G @ 6 ms @ 1/2 sine, *SSLB:* N/A.

SSMC (MIL-PRF-39012 as applicable)

Materials:

Jack mating ends, center contacts: Beryllium copper per ASTM-B-196, Condition HT.
Crimp sleeves: Seamless copper tube per ASTM-B-75, type C12000, temper: light anneal 050.
Other metal parts: Brass per ASTM-B-16, Alloy 360, 1/2 hard.
Insulators: Teflon (TFE) per ASTM-D-1710.

Finish:

Center contacts: Gold plated per current revision of MIL-PRF-39012*
Other metal parts: Gold plated to meet current MIL-PRF-39012 corrosion requirements.*

Electrical:

Impedance: 50Ω. **Frequency range:** DC-12.4 GHz.
Voltage Rating: 250VRMS @ sea level; 60 VRMS @ 70,000 ft.
Insulation Resistance: 1,000 megohms minimum.

Contact Resistance:

Center contact: Initial: 4.0 milliohms maximum;
after environmental test conditions: 6.0 milliohms maximum.

Outer contact: Initial: 1.0 milliohms maximum;
after environmental test conditions: 1.5 milliohms maximum.

Cable braid to body: Initial: 1.0 milliohms maximum; after environmental test conditions: N/A.

Corona level: 125V @70,000 ft. **RF highpot:** 400 VRMS @ 5 MHz.

RF leakage: -50 dB min @ 2-3 GHz. **Insertion loss:** .30 dB max @ 1.5 GHz.

VSWR:	Cable	Straight connector	Right angle connector
RG-178	1.20 + (.020 x F[GHz])	1.20 + (.030 x F[GHz])	1.20 + (.030 x F[GHz])
RG-316	1.25 + (.020 x F[GHz])	1.25 + (.030 x F[GHz])	1.25 + (.030 x F[GHz])
.085" semi-rigid	1.20 + (.015 x F[GHz])	1.20 + (.025 x F[GHz])	1.20 + (.025 x F[GHz])

Mechanical:

Force to engage: 16 inch-ounces torque max.

Mating torque: 28-32 inch-ounces.

Coupling nut pulloff resistance: 25 pounds min.

Contact retention: 2 pounds min axial force.

Durability: 500 mating cycles.

Environmental (MIL-STD-202):

Temperature range: -65° C to +165° C. **Corrosion:** Method 101, condition B, 5% salt solution.

Vibration (Method 204): Condition D (20G).

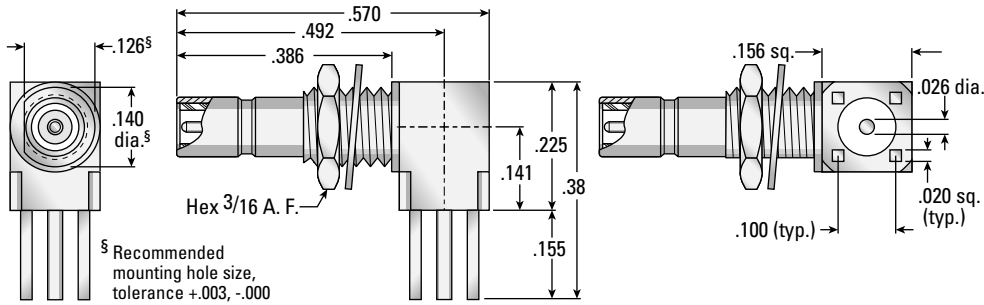
Mechanical shock (Method 213): Condition B, 75G @ 6 ms @ 1/2 sine.

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

SSMB P.C. Board Receptacles

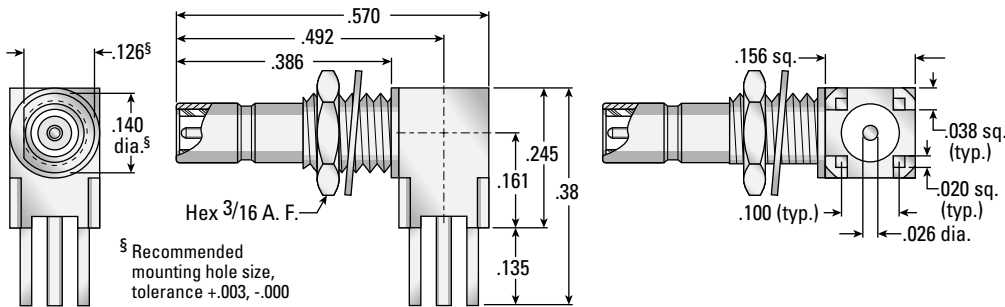
Right Angle Bulkhead Mounted P.C. Board Receptacles (.125" max panel thickness)

Standard legs



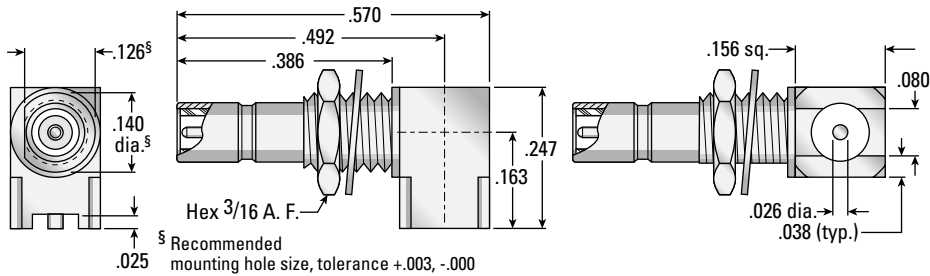
LEG FINISH	AEP P/N
GOLD	7410-1511-000
PRETINNED	7410-1511-012

Standoff legs



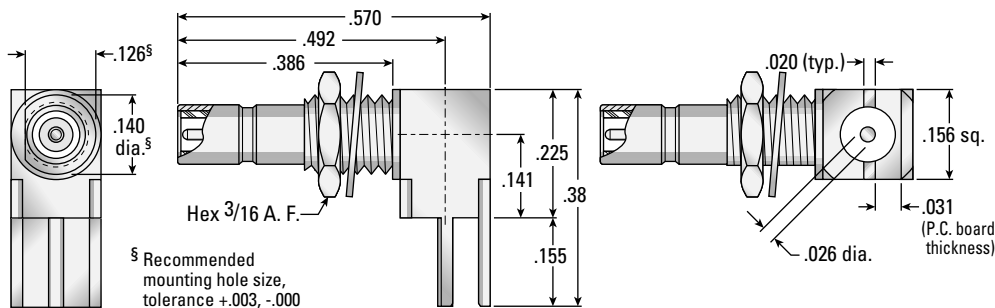
LEG FINISH	AEP P/N
GOLD	7410-1511-050
PRETINNED	7410-1511-040

Surface mount



LEG FINISH	AEP P/N
GOLD	7410-1511-015

Edge mount



LEG FINISH	AEP P/N
GOLD	7410-1511-060
PRETINNED	7410-1511-061



APPLIED ENGINEERING PRODUCTS

(203) 776-2813 • FAX (203) 776-8294 www.aep.us • aepsales@aep.us