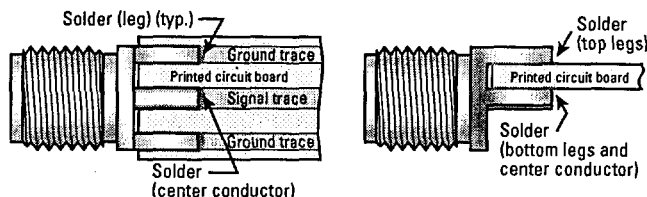


# SMA Edge Mount P.C. Board Receptacles

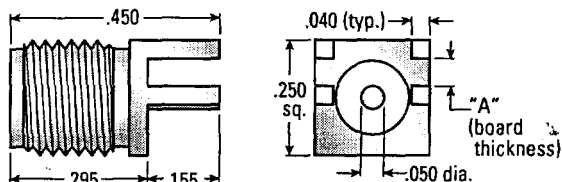
AEP SMA edge-mount P.C. board receptacles offer quick, convenient assembly with no board drilling required, and can replace more expensive right-angle types in many applications. Gold plating is standard, but other body finishes are available. Their compact size makes them ideal for applications requiring dense packaging.

SMA edge-mount types can be supplied quickly for any board thickness up to .062" maximum. Connectors for thicker boards can be supplied by special order.

## How they work:



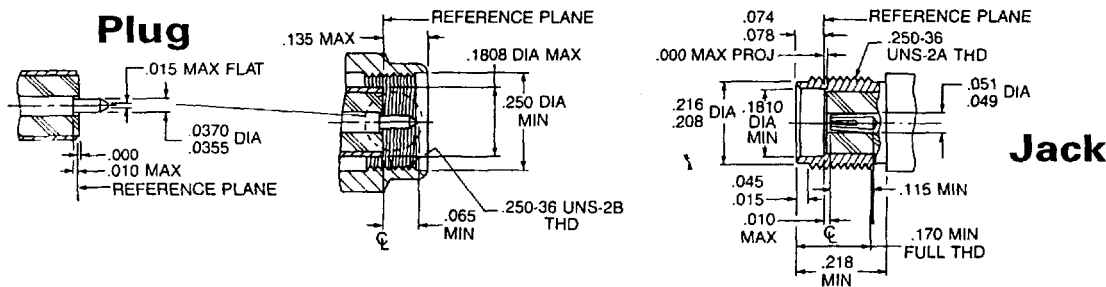
## Ordering Information



"A"	AEP P/N
.032	9650-1113-014
.062	9650-1113-004

Also available in bulkhead jack and plug mating end configurations.

## Interface Dimensions



## Specifications (MIL-PRF-39012 as applicable)

### Materials:

**Body components:** Stainless steel per ASTM-A-582, type 303.

**Contacts:** Beryllium copper per ASTM-B-196, Condition HT.

**Insulators:** Teflon TFE per ASTM-D-1710.

**Gaskets:** Silicone rubber per ZZ-R-765, Class 2B, grade 65-75.

### 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-18 GHz.

**Insulation Resistance:** 5,000 megohms min.

**Voltage Rating:** 250VRMS @ sea level.

**Dielectric Withstanding Voltage:** Per MIL-STD-202, Method 301.

**Contact Resistance:** 3 milliohms maximum.

**RF highpot:** 335 VRMS @ 5 MHz.

**RF leakage:** -60 dB min @ 2-3 GHz.

**Insertion loss:** .44 dB max to 6 GHz.

### Mechanical:

**Force to engage/disengage:** 2 pounds max.

### Force to engage/disengage (female contacts):

(After 5 insertions of .375" diameter pin, .040" min depth): Insertion force for .037 min diameter pin, 2 pounds max. Withdrawal force for .0355" max diameter pin, 1 ounce min.

**Contact retention:** 6 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 B.

**Mechanical shock (Method 213):** Condition B.

**Thermal shock (Method 107):** Condition B.

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



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