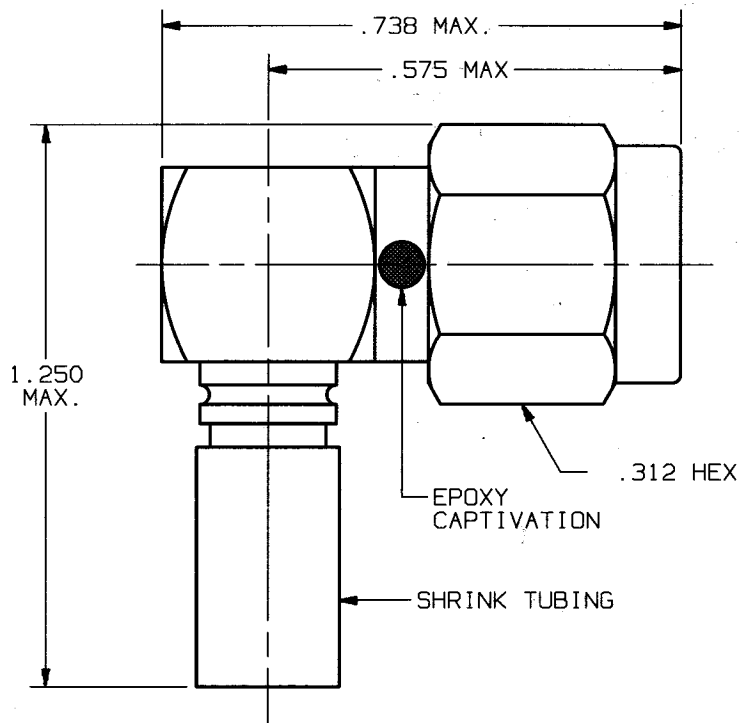


CONFIGURATION: [TOLERANCE ± .005 UNLESS OTHERWISE SPECIFIED]

DWG. NO.

M39012/56B3112

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SMA PLUG, R/A CUBE CRIMP OR SOLDER FOR M17/113-RG316 & M17/119-RG174 CABLES

**ELECTRICAL:**

NOMINAL IMPEDANCE (OHMS) \_\_\_\_\_ 50  
 FREQUENCY RANGE (GHZ) \_\_\_\_\_ DC TO 12.4  
 VOLTAGE RATING (MAX. VRMS) \_\_\_\_\_ 250  
 VSWR (MAX.) \_\_\_\_\_  $1.15 + .03 f \times \text{GHz}$   
 INSERTION LOSS (DB MAX.  $\times \sqrt{\text{FGHz}}$ ) \_\_\_\_\_ .15  
 RF LEAKAGE (MIN. DB DOWN) \_\_\_\_\_ -60  
 RF HIGH POTENTIAL (MAX. VRMS) \_\_\_\_\_ 500 AT 7.5 MAX. MHz  
 DIELECTRIC WITHSTANDING VOLT. (MAX. VRMS) \_\_\_\_\_ 750  
 INSULATION RESISTANCE (MIN. MEGOHMS) \_\_\_\_\_ 5000  
 CONTACT RESISTANCE:  
 CENTER CONTACT (MAX. MILLIOHMS) \_\_\_\_\_ 4.0  
 OUTER CONTACT (MAX. MILLIOHMS) \_\_\_\_\_ 2.0

**MECHANICAL:**

PER MIL-STD 348 AND S/V MD-107  
 INTERFACE DIMENSIONS \_\_\_\_\_  
 RECOMMENDED MATING TORQUE \_\_\_\_\_ 7 TO 10 IN. LB.  
 CENTER CONTACT AXIAL FORCES:  
 INSERTION (MAX. OUNCES) \_\_\_\_\_ N/A  
 WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A  
 CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500  
 CONNECTOR ENGAGEMENT AND DISENGAGEMENT (MAX. INCH LBS.) \_\_\_\_\_ 2.0 (RADIAL)  
 CENTER CONTACT CAPTIVATION \_\_\_\_\_ 6.0 LBS. MIN. AXIAL FORCE

**MATERIAL & FINISH:**

BODY, FERRULE & CAP: STAINLESS STEEL PER AMS-5640, UNS-30300, TYPE I, GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1, OVER NICKEL PER QQ-N-290, CLASS 1.  
 COUPLING NUT: STAINLESS STEEL PER AMS-5640, UNS-30300, TYPE I PASSIVATE PER QQ-P-35C, TYPE II.  
 CONTACT: BRASS PER ASTM-B-16, ALLOY C36000, TEMPER H02, GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1, OVER NICKEL PER QQ-N-290 CLASS 1.  
 LOCK RING: BERYLLIUM COPPER PER ASTM B196, COND. TD04, ALLOY UNS-C17300.  
 GASKET: SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50-60.  
 INSULATOR: TEFLON PER ASTM D1457  
 CRIMP RING: COPPER PER WW-T-799, TYPE K, FORM A, CLASS 1, GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1, OVER COPPER PER MIL-C-14550, CLASS 4.

**ENVIRONMENTAL:**

TEMP. RATING (DEGREES CENTIGRADE) \_\_\_\_\_ -65° TO +165°C  
 VIBRATION (MIL-STD-202, METHOD 204, CONDITION D, 20G'S)  
 SHOCK (MIL-STD-202, METHOD 213, COND. I, 100G'S)  
 TEMP. CYCLING (MIL-STD-202, METHOD 107, COND. B, -65c TO 200° C)  
 MOISTURE RESISTANCE (MIL-STD-202, METHOD 106, LESS STEP 7B)  
 BAROMETRIC PRESSURE (ALTITUDE) MIL-STD-202, METHOD 105, COND. C, 70,000 FT., \_\_\_\_\_ 190 VRMS)  
 HERMETICITY \_\_\_\_\_ N/A

CABLE ASSEMBLY INSTRUCTIONS: 300-80-582

SYM.	DESCRIPTION	DATE	APPR.	DRAWN:	APPROVED:
-	REL. DCN 23102	2/97	[Signature]	BRT	[Signature]
				DATE 1/16/97	DATE 2/97

**SOLITRON/VECTOR  
 MICROWAVE**  
 3301 ELECTRONICS WAY  
 WEST PALM BEACH, FL., 33407

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