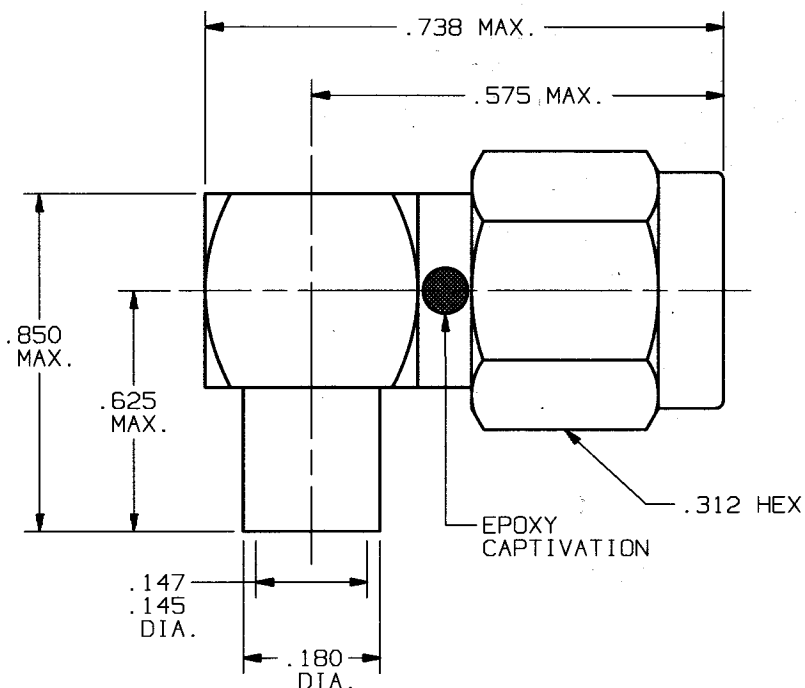


CONFIGURATION: [TOLERANCE  $\pm$  .005 UNLESS OTHERWISE SPECIFIED]

DWG. NO.

M39012/80-3106

ENG. FILE COPY



SMA PLUG, R/A, DIRECT SOLDER ON FOR M17/130-RG402,  
M17/130-00001 THRU M17/130-00007 CABLES

## ELECTRICAL:

NOMINAL IMPEDANCE (OHMS) 50  
FREQUENCY RANGE (GHZ) DC TO 12.4  
VOLTAGE RATING (MAX. VRMS) 500  
VSWR (MAX.) 1.10  $+0.01f \times \text{GHz}$   
INSERTION LOSS (DB MAX.  $\times \sqrt{\text{fGHz}}$ ) .05  
RF LEAKAGE (MIN. DB DOWN) -90  
RF HIGH POTENTIAL (MAX. VRMS) 1000 AT 5 MHz  
DIELECTRIC WITHSTANDING VOLT. (MAX. VRMS) 1500  
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 S30300, 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 S30300, TYPE I.  
PASSIVATED PER QQ-P-35C, TYPE II.

CONTACT: BRASS PER ASTM-B-16, UNS C36000, TEMPER H02. GOLD PLATED  
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

## 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 115° C)  
MOISTURE RESISTANCE (MIL-STD-202, METHOD 106, LESS STEP 7B)  
BAROMETRIC PRESSURE (ALTITUDE) MIL-STD-202, METHOD 105,  
COND. C. 70,000 FT., 375 VRMS)  
HERMETICITY N/A

CABLE ASSEMBLY INSTRUCTIONS: 300-80-576

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

SOLITRON/VECTOR  
MICROWAVE

3301 ELECTRONICS WAY  
WEST PALM BEACH, FL. 33407

DWG. NO.

M39012/80-3106