MODEL No.:

# 79Y57611



## SPECIFICATIONS

### 1.0 ENGINEERING DATA

| | |
|---|---|
| NOMINAL IMPEDANCE | 50 OHMS |
| FREQUENCY | DC TO 40 GHZ |
| VOLTAGE RATING | 300 VOLTS RMS @ SEA LEVEL |
| | 60 VOLTS RMS @ 70,000 FT. |
| TEMPERATURE RANGE | -55° TO +165°C |

### 2.0 MECHANICAL

#### 2.1 MATERIAL AND FINISH

| | |
|---|---|
| OUTER CONDUCTOR HOUSING | STEEL, CRES ALLOY UNS-S30300 PER ASTM A582. GOLD PLATE PER MIL-DTL-45204 |
| CENTER CONDUCTOR | BERYLLIUM COPPER UNS-C17300 PER ASTM B196 GOLD PLATE PER MIL-DTL-45204 |
| DIELECTRIC | VIRGIN PTFE FLUOROCARBON PER ASTM D1710 TYPE 1, GRADE 1, CLASS B AND ASTM D1457 OR ASTM D4894 |
| CAPTURE BEAD | ULTEM 1000 PER ASTM D5205 |

#### 2.2 CONFIGURATION AND FEATURES

| | |
|---|---|
| CENTER CONTACT RETENTION | 6 LBS (27 N) AXIAL MINIMUM |

#### 2.3 SOCKET REQUIREMENTS

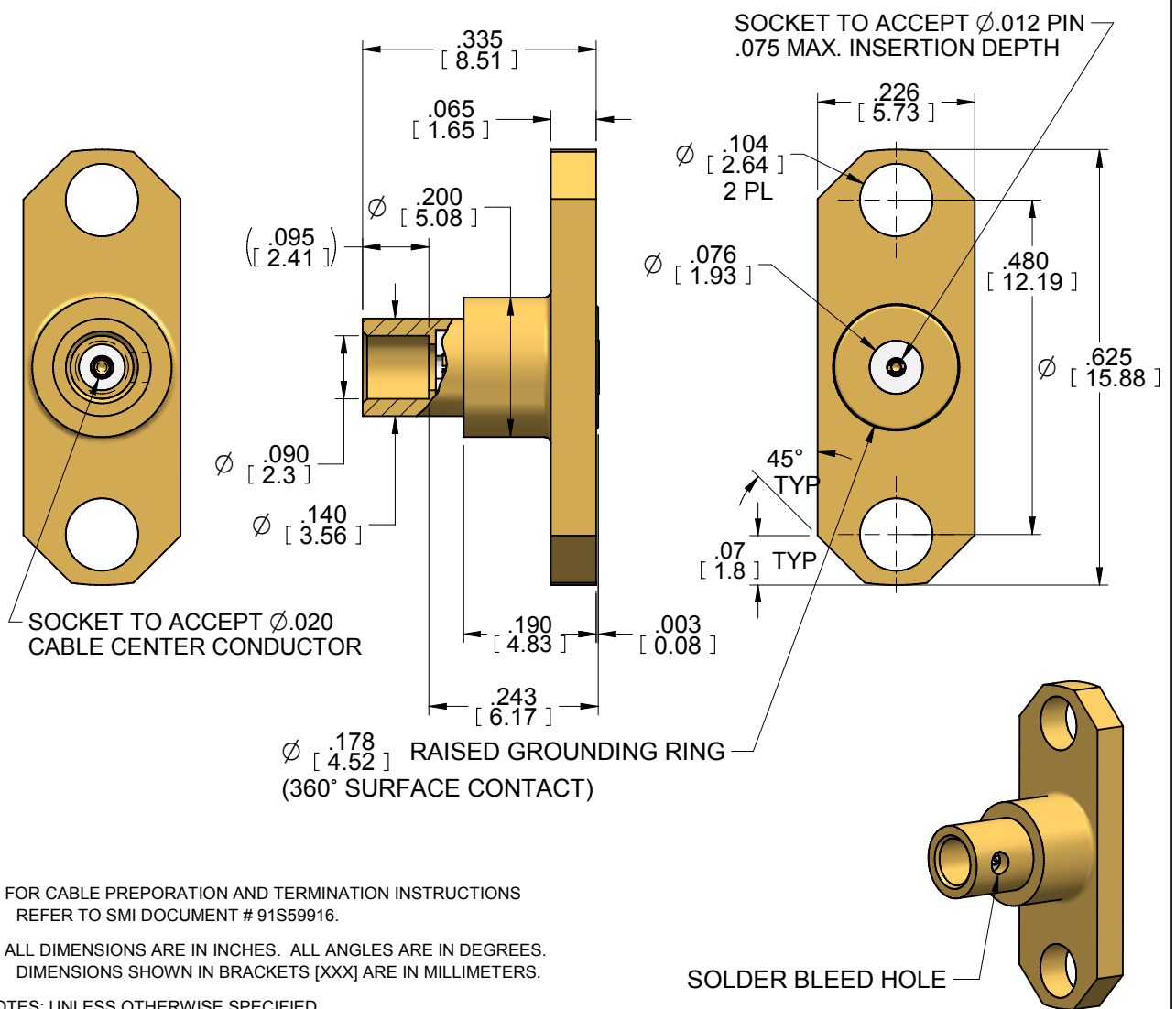
| | |
|---|---|
| INSERTION FORCE (CABLE SOCKET) | 2.0 LB MAXIMUM |
| WITHDRAWAL FORCE(CABLE SOCKET | 1.0 OZ MINIMUM |
| INSERTION FORCE (LAUNCH SOCKET) | 2.0 LB MAXIMUM |
| WITHDRAWAL FORCE(LAUNCH SOCKET | 0.25 OZ MINIMUM |

### 3.0 ELECTRICAL

| | |
|---|---|
| INSULATION RESISTANCE | NOT LESS THAN 5000 MEGOHMS |
| DIELECTRIC WITHSTANDING VOLTAGE | 300 VOLTS RMS |
| CONTACT RESISTANCE | 3.0 MILLIOHMS (INITIAL) |
| | 4.0 MILLIOHMS (AFTER ENVIRONMENT) |
| | 2.0 MILLIOHMS (OUTER CONDUCTOR) |
| VOLTAGE STANDING WAVE RATIO (TESTED ON CABLE ASSEMBLY) | DC TO 40 GHZ ..... 1.4:1 MAX VSWR |
| RF LEAKAGE | $-(120 - fGHz)$ dB Maximum |

### 4.0 ENVIRONMENTAL

| | |
|---|---|
| VIBRATION | PER MIL-STD-202, METHOD 204, TEST CONDITION D (20G PEAK) |
| SHOCK | PER MIL-STD-202, METHOD 213, TEST CONDITION I (100G PEAK) |
| THERMAL SHOCK | PER MIL-STD-202, METHOD 107, TEST CONDITION F (-65° C TO +150° C) |
| CORROSION (SALT SPRAY) | PER MIL-STD-202, METHOD 101, TEST CONDITION B (48 HOURS) (5% SALT SOLUTION) |
| MOISTURE RESISTANCE | PER MIL-STD-202, METHOD 106, OMIT 7B (VIBRATION), INSULATION RESISTANCE SHALL BE 500 MEGOHMS MINIMUM |
| CORONA LEVEL | 60 VOLTS RMS @ 70,000 FT. |




2. FOR CABLE PREPORATION AND TERMINATION INSTRUCTIONS REFER TO SMI DOCUMENT # 91S59916.

1. ALL DIMENSIONS ARE IN INCHES. ALL ANGLES ARE IN DEGREES. DIMENSIONS SHOWN IN BRACKETS [XXX] ARE IN MILLIMETERS.

NOTES: UNLESS OTHERWISE SPECIFIED.

| REV | ECN | DATE: | APRVD. | DATE: |
|---|---|---|---|---|
| B1 | 8957 | 3/2/11 | B.ROSAS | 5/11/11 |

SOUTHWEST MICROWAVE

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TITLE

DIRECT SOLDER FLANGE MOUNT CONNECTOR
FOR .086 SEMI-RIGID CABLE APPLICATION TO Ø.012 LAUNCH
2 HOLE .625 LONG X .226 WIDE FLANGE

| DRN BY: | DATE: | MODEL NO. | REV. |
|---|---|---|---|
| SS | 11/02 | 107-14G | B1 |
| SCALE: 3:1 | | DWG. NO. | |
| SHEET: 1 OF 1 | | 79Y57611 | |