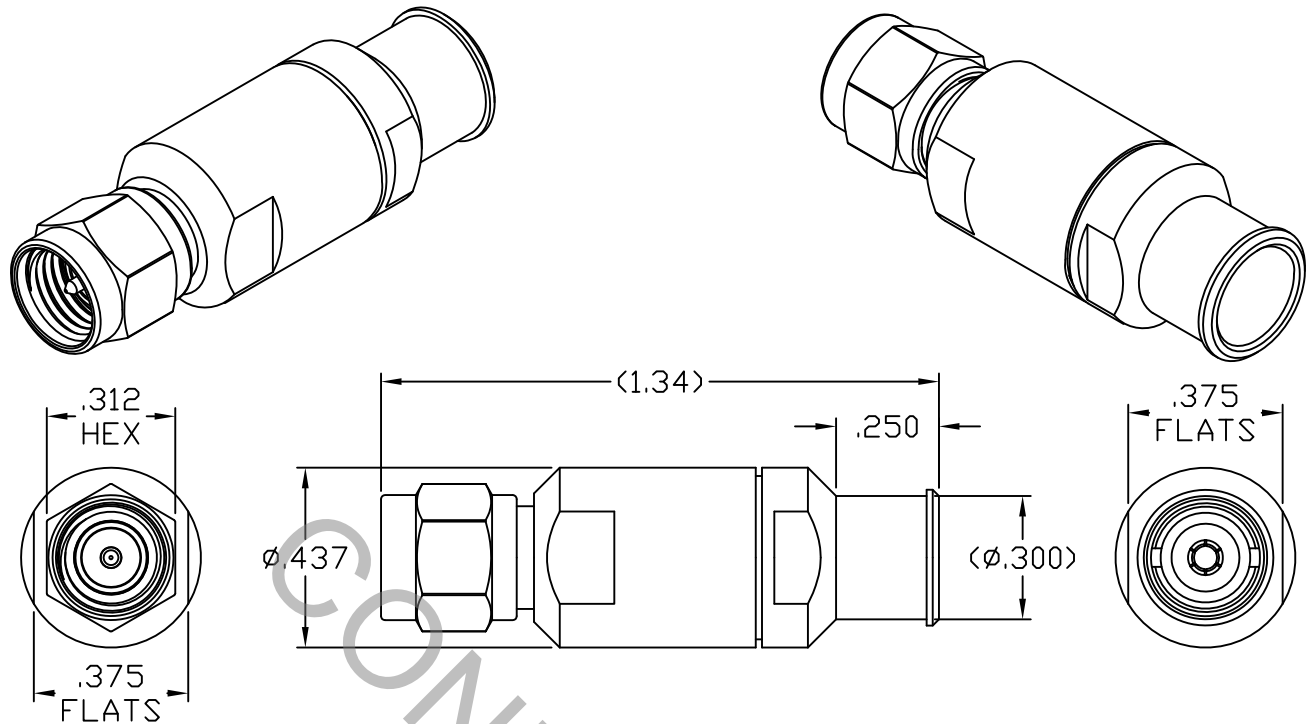


# DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).

## 2. ELECTRICAL

|                                             |       |                               |
|---------------------------------------------|-------|-------------------------------|
| FREQUENCY RANGE GHz                         | _____ | DC TO 26.5 GHz                |
| VSWR (MAX.) *                               | _____ | 1.05 + .005 x FGHz            |
| INSERTION LOSS (dB MAX.) *                  | _____ | .04 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS)                    | _____ | 50                            |
| VOLTAGE RATING (MAX. VRMS)                  | _____ | 333                           |
| RF LEAKAGE (MIN. dB DOWN)                   | _____ | -100 dB - FGHz                |
| TEMPERATURE RATING (DEGREES CENTIGRADE)     | _____ | -65°C TO + 165°C              |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 1,000                         |
| INSULATION RESISTANCE (MIN. MEGOHMS)        | _____ | 5,000                         |
| CONTACT RESISTANCE                          |       |                               |
| • CENTER CONTACT (MAX. MILLIOHMS)           | _____ | 6.0                           |
| • OUTER CONTACT (MAX. MILLIOHMS)            | _____ | 2.0                           |

\* TERMINATED IN A 50 OHM LOAD

# RoHS COMPLIANT

|      |         |          |      |                                        |              |                             |                                                                                                              |                                                                           |
|------|---------|----------|------|----------------------------------------|--------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| REV. | DCN NO. | DATE     | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES |              |                             | <br>HAVERHILL, MA 01835 |                                                                           |
| AA   | 11-1280 | 3/24/11  | DC   | DECIMALS                               | FRACTIONAL   | ANGULAR                     |                                                                                                              |                                                                           |
| AB   | 12-1794 | 9/13/12  | TS   | .X ± .030<br>.XX ± .010<br>.XXX ± .005 | ± 1/64       | X ° ± 1' 0"<br>X ° X' ± 15' |                                                                                                              |                                                                           |
| AC   | 12-2190 | 11/29/12 | DC   | DRAWN                                  | DC           | DATE                        | 3/24/11                                                                                                      | TITLE<br>SMA PLUG, SOLDER<br>CLAMP, PLUG-IN CONTACT,<br>T7-00015 LOW LOSS |
|      |         |          |      | APPROVED                               | DC           | DATE                        | 3/24/11                                                                                                      |                                                                           |
|      |         |          |      |                                        |              |                             |                                                                                                              |                                                                           |
|      |         |          |      | CODE IDENT.                            | SHEET 1 OF 2 |                             | DWG. NO.                                                                                                     | 9800-7015-6240                                                            |
|      |         |          |      | 6DZL5                                  |              |                             |                                                                                                              |                                                                           |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 4.5 LBS.

MAX RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) \_\_\_\_\_ N/A

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500

RECOMMENDED MATING TORQUE \_\_\_\_\_ 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 107, COND. C ( -65° c TO + 165° c )

SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 213, COND. I (100 G's)

VIBRATION \_\_\_\_\_ MIL-STD-202, METHOD 204, COND. D (20 G's)

MOISTURE RESISTANCE \_\_\_\_\_ MIL-STD-202, METHOD 106, LESS STEP 7b

CORROSION \_\_\_\_\_ MIL-STD-202, METHOD 101, COND. B (48 HOURS)

BAROMETRIC PRESSURE (ALTITUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 250 VRMS )

## 5. MATERIAL

BODY, BUSHING, COUPLING NUT & CLAMP NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CONTACTS & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER  
ALLOY No. UNS-C17300, TEMPER TD04.

INTERFACE INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.

SUPPORT INSULATOR \_\_\_\_\_ PLASTIC COMPOSITE

SOLDER SLEEVE \_\_\_\_\_ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

## 6. FINISH

BODY, BUSHING, COUPLING NUT & CLAMP NUT \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

SOLDER SLEEVE \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290  
CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS)  
(.000010 MIN. THK.)

CONTACTS \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.75  
(.000030 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290  
CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418  
(.000010 MIN. THK.)

INSULATORS, RETAINING RING & GASKET \_\_\_\_\_ N/A