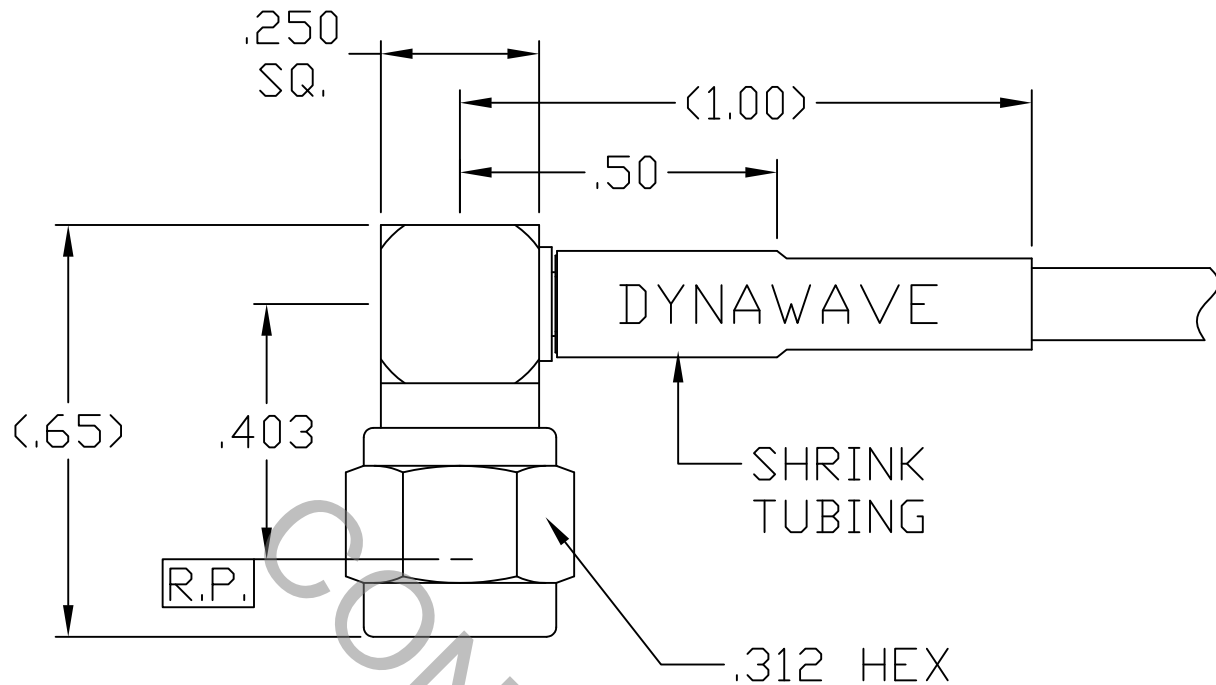


SPECIFICATION CONTROL DRAWING



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


2. ELECTRICAL

| | | |
|---|-------|--------------------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 3.0 GHz |
| VSWR (MAX.) * | _____ | 1.10 + .010 x FGHz |
| INSERTION LOSS (dB MAX.) * | _____ | .045 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 |
| VOLTAGE RATING (MAX. VRMS) | _____ | 250 |
| RF LEAKAGE (MIN. dB DOWN) | _____ | -100 dB - FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | -65° c TO + 165° c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 750 |
| 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

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | |  HAVERHILL, MA 01835 |
|------|---------|---------|------|--|------------|--------------|--|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| - | 1010 | 9/93 | MB | .X ± .030 | | X ° ± 1° 0' | |
| AA | 05-1488 | 4/15/05 | DC | .XX ± .010 | ± 1/64 | X ° X' ± 15' | |
| AB | 14-1227 | 2/26/14 | DC | .XXX ± .005 | | | |
| | | | | DRAWN | KLF | DATE 5/18/99 | TITLE SMA PLUG, RIGHT ANGLE, CRIMP, RG-174, 188, 316 CABLE |
| | | | | APPROVED | GL | DATE 6/21/99 | |
| | | | | CODE IDENT. | | SHEET 1 OF 2 | DWG. NO. 9801-1631-6440 |
| | | | | 2J899 | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
 MIN. AXIAL FORCE _____ 4.0 LBS.
 MIN. 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.) (190 VRMS)

5. MATERIAL

BODY, CAP & COUPLING NUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
 CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER
 ALLOY No. UNS-C17300, TEMPER TD04.
 INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
 GASKET _____ SILICONE RUBBER PER AMS-3304, GRADE 70
 SHRINK TUBING _____ POLYOLIFEN PER MIL-DTL-23053/5, CLASS 1
 CRIMP SLEEVE _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

6. FINISH

COUPLING NUT _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.
 BODY & CAP _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
 CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS)
 (.000010 MIN. THK.)
 CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418
 (.000010 MIN. THK.)
 CRIMP SLEEVE _____ NICKEL PER SAE-AMS-QQ-N-290, CLASS 1 (.000200 MIN. THK.)
 OVER COPPER PER AMS-2418 (.000010 MIN. THK.).
 INSULATOR, GASKET, RETAINING RING & SHRINK TUBING — N/A