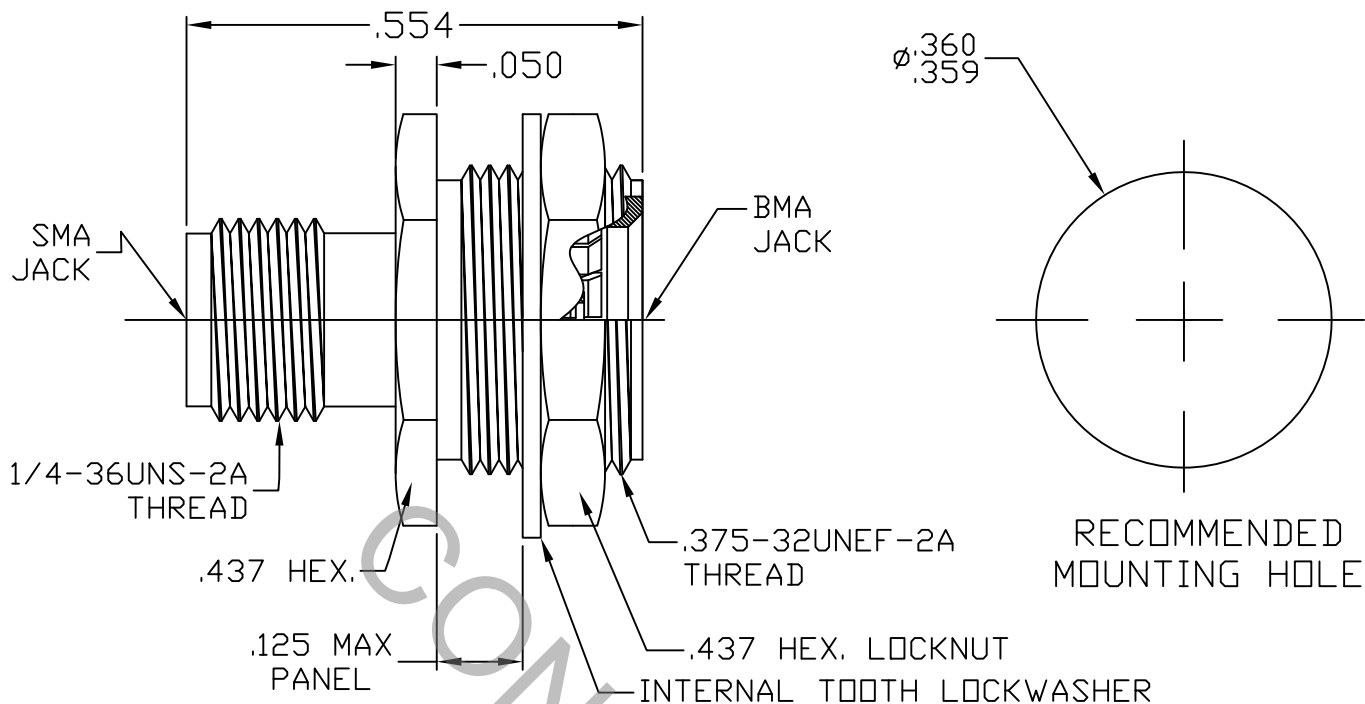


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 310.2 (SMA JACK) AND Fig. 321.2 (BMA JACK).

2. ELECTRICAL

| | | |
|---|-------|-------------------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 20.0 GHz |
| VSWR (MAX) * | _____ | 1.05 + .007 x FGHz |
| INSERTION LOSS (dB MAX) * | _____ | .04 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) | _____ | 1,000 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | _____ | 10,000 |
| CONTACT RESISTANCE | | |
| • CENTER CONTACT (MAX. MILLIOHMS) | _____ | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | _____ | 2.0 |

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | HAVERHILL, MA 01835 |
|------|---------|---------|------|--|--------------|----------------------------|--|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| AA | 16-1810 | 6/30/16 | TS | .X ± .030 .XX ± .010 .XXX ± .005 | ±/64 | X ° ± 1 0' X ° X' ± 15' | TITLE SMA, JACK TO BMA, JACK BULKHEAD ADAPTER |
| AB | 16-2014 | 8/24/16 | TS | | | | |
| | | | | DRAWN TS | DATE 6/30/16 | | |
| | | | | APPROVED DC | DATE 6/30/16 | | |
| | | | | CODE IDENT. 2J899 | SHEET 1 OF 2 | DWG. NO. 1110-6799-3250 | |

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) _____ SMA AND BMA INTERFACE 32.0

● WITHDRAWAL (MIN. OUNCES) _____ SMA AND BMA INTERFACE 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — BMA 3.0 / 1.5

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ SMA 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65° c TO + 200° 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 AND LOCKNUT _____ STAINLESS STEEL PER ASTM-A-479, TYPE 316L

CENTER CONTACT AND SPRING FINGERS _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

LOCKWASHER _____ 400 SERIES STAINLESS STEEL

CENTER CONTACT HOOD _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.

INSULATOR _____ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

BODY, LOCKWASHER AND LOCKNUT _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

CENTER CONTACT ASSEMBLY _____ GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.25
AND SPRING FINGERS (.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000050 MIN. THK.) OVER COPPER PER AMS 2418
(.000010 MIN. THK.)

INSULATOR _____ N/A