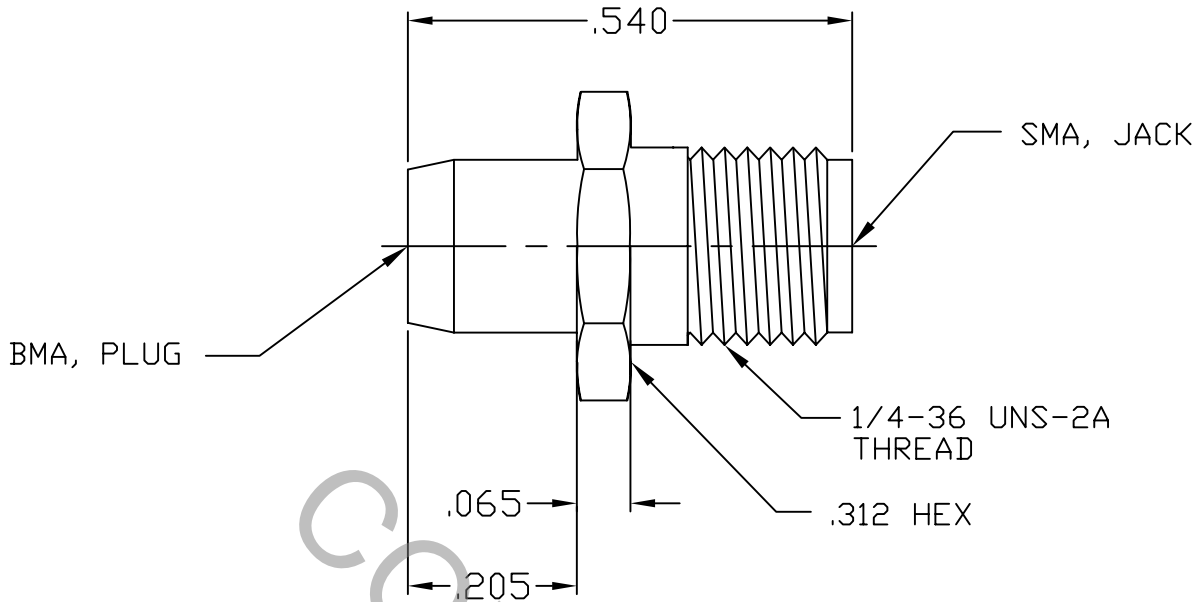


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348
 Figures 321.1 (BMA PLUG) & 310.2 (SMA JACK).

2. ELECTRICAL

| | | |
|---|-------|--------------------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 20.0 GHz |
| VSWR (MAX.) * | _____ | 1.05 + .007 x FGHz |
| INSERTION LOSS (dB MAX.) * | _____ | .035 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

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | |  HAVERHILL, MA 01835 |
|------|---------|---------|------|--|--------------|--|--|
| - | 753 | 6/90 | TS | DECIMALS | FRACTIONAL | ANGULAR | |
| AA | 08-1672 | 7/23/08 | DC | .X ± .030 .XX ± .010 .XXX ± .005 | ± 1/64 | X ° ± 1° 0' X ° X' ± 15' | |
| | | | | DRAWN TS | DATE 6/90 | TITLE BMA PLUG TO SMA JACK ADAPTER | |
| | | | | APPROVED DGG | DATE 6/90 | | |
| | | | | CODE IDENT. 2J899 | SHEET 1 OF 2 | DWG. NO. | 1100-2899-6253 |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 6.0 LBS.

MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) _____ 48.0

● WITHDRAWAL (MIN. OUNCES) _____ 4.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 1000

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

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 _____ STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A

CONTACT _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER ASTM D 4894-91.

6. FINISH

BODY _____ PASSIVATE PER AMS QQ-P-35, TYPE 2

CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5
(.000100 MIN. THK.) OVER NICKEL per QQ-N-290
(.000050 MIN. THK.) OVER COPPER per MIL-C-14550
(.000010 MIN. THK.)

INSULATOR _____ N/A