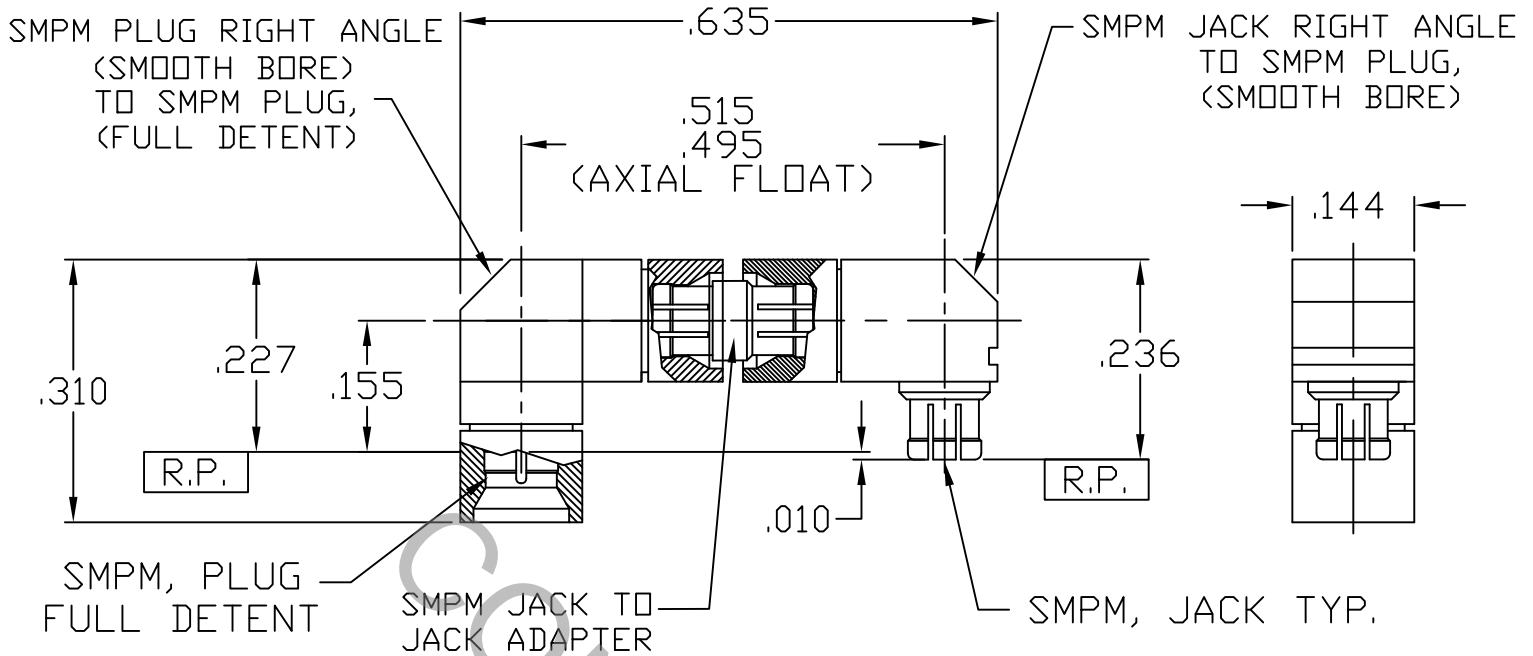


SPECIFICATION CONTROL DRAWING



NOTE: SMPM, JACK/PLUG CAN ROTATE 360°

1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 328.1 (SMPM, JACK)

2. ELECTRICAL

| | |
|---|--|
| FREQUENCY RANGE GHz | DC TO 40.0 GHz. |
| VSWR (MAX.) * | DC TO 26.5 GHz., 1.05 + .010 x FGHz. 26.5 TO 40 GHz., 1.10 + .015 x FGHz. |
| INSERTION LOSS (dB MAX.)* | DC TO 26.5 GHz., .060 dB x √FGHz. 26.5 TO 40.0 GHz., .080 dB x √FGHz. |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 250 |
| RF LEAKAGE (MIN. dB DOWN) | -85 dB - FGHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | -65° c TO +150° c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 500 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 2,500 |
| 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 |
|------|---------|---------|------|--|---------------------|--------------------------------------|---|
| AA | 16-1839 | 7/14/16 | TS | DECIMALS .X ± .030 .XX ± .010 .XXX ± .005 | FRACTIONAL ±1/64 | ANGULAR X° ± 1' 0" X° X' ± 15" | |
| | | | | DRAWN | TS | DATE | TITLE SMPM, JACK TO SMPM, (P) F/D RIGHT ANGLE HORSE SHOE ADAPTER |
| | | | | APPROVED | DC | DATE | |
| | | | | CODE IDENT. | | | DWG. NO. 1101-3031-5460 |
| | | | | 2J899 | SHEET 1 OF 2 | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 4.5 LBS.
- MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

- | | FULL DETENT | SMOOTH BORE |
|--------------------------------|-------------|-------------|
| ● INSERTION (MAX. LBS.) _____ | 6.5 | 1.5 |
| ● WITHDRAWAL (MIN. LBS.) _____ | 5.0 | 0.5 |

CONNECTOR DURABILITY (MIN. MATING) _____ 100 500

4. ENVIRONMENTAL

- TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, 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.) (125 VRMS)

5. MATERIAL

- CONNECTOR BODY (SMPM, PLUG) _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
- CONNECTOR BODY (SMPM, JACK) AND CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
- INSULATORS _____ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

- CONNECTOR BODY (SMPM, PLUG) _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
- CONNECTOR BODY (SMPM, JACK) _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290 CLASS 1
(.000100 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
- CENTER CONTACT _____ GOLD PER ASTM B 488, TYPE 1, 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.)
- INSULATORS _____ N/A