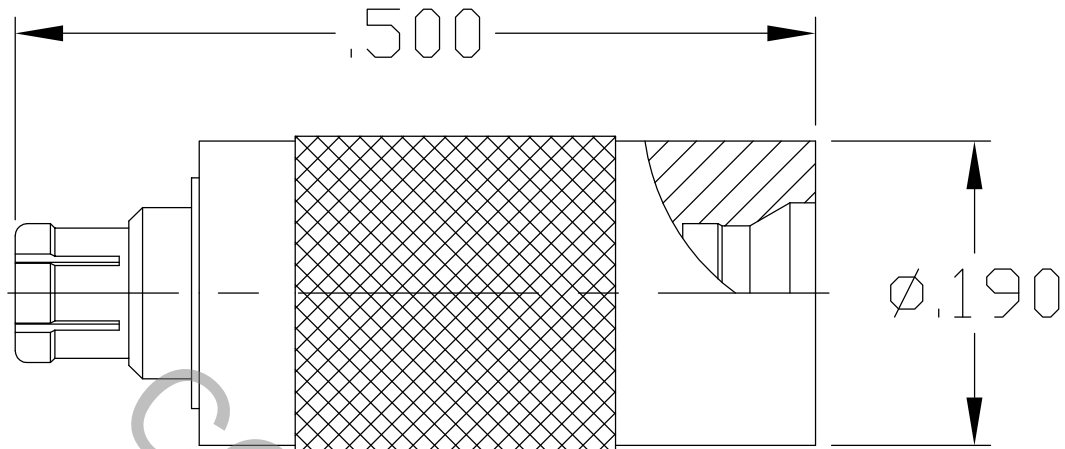


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348
Fig. 328.1 (SMPM FEMALE JACK), Fig. 328.2 (SMPM MALE FD).

2. ELECTRICAL

| | | |
|---|-------|--------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 50.0 GHz |
| VSWR (MAX) * | _____ | 1.05 + .009 x FGHz |
| INSERTION LOSS (dB MAX) * | _____ | .06 dB x √FGHz |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 |
| VOLTAGE RATING (MAX. VRMS) | _____ | 165 |
| RF LEAKAGE (MIN. dB DOWN) | _____ | -65dB - FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | -65°C TO + 165°C |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 500 |
| 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

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | |  HAVERHILL, MA 01835 |
|------|---------|--------|------|--|--------------|----------------------------|--|
| AA | 06-2093 | 9/1/06 | DC | DECIMALS | FRACTIONAL | ANGULAR | |
| | | | | .X ± .030 .XX ± .010 .XXX ± .005 | ± 1/64 | X ° ± 1'0" X ° X' ± 15' | |
| | | | | DRAWN DC | DATE | 9/1/06 | TITLE SMPM FEMALE TO SMPM MALE FULL DETENT ADAPTER |
| | | | | APPROVED DC | DATE | 9/1/06 | |
| | | | | CODE IDENT. | SHEET 1 OF 2 | | DWG. NO. 1100-3031-6250 |
| | | | | 2J899 | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
 MAX AXIAL FORCE _____ 4.5 LBS.
 MAX RADIAL TORQUE _____ N/A
 FEMALE CENTER CONTACT AXIAL FORCES
 ● INSERTION (MAX OUNCES) _____ INTERFACE 32.0
 ● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 1.0
 CONNECTOR ENGAGEMENT/DISENGAGEMENT (LBS.) _____ 6.50 MAX, 5.00 MIN.
 CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
 RECOMMENDED MATING TORQUE _____ N/A

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

MALE BODY _____ STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A
 CONTACT & FEMALE BODY _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
 No. UNS-C17300, TEMPER TD04.
 INSULATOR _____ TEFLON PER ASTM D 4894-91.

6. FINISH

MALE BODY _____ PASSIVATE PER AMS QQ-P-35, TYPE 2.
 FEMALE BODY _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
 (.000050 MIN. THK.) OVER NICKEL per QQ-N-290
 (.000100 MIN. THK.) OVER COPPER per MIL-C-14550
 (.000040 MIN. THK.)
 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