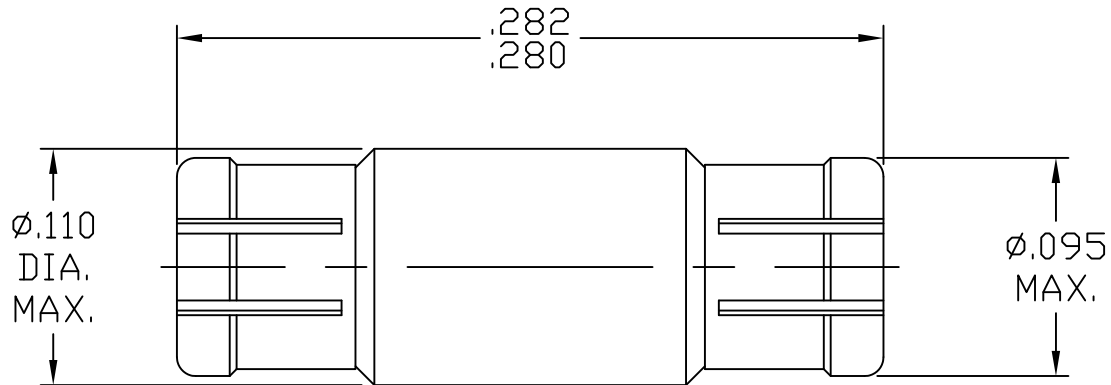


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A Fig. 328.1


2. ELECTRICAL

|   |                      |                                 |
|---|----------------------|---------------------------------|
| FREQUENCY RANGE                             | _____                | DC TO 50.0 GHz.                 |
| (DC TO 23.0 GHz.) *                         | _____                | VSWR 1.10 MAX.                  |
| (23.0 TO 26.5 GHz.) *                       | _____                | VSWR 1.15 MAX.                  |
| (26.5 TO 40.0 GHz.) *                       | _____                | VSWR 1.40 MAX.                  |
| (40.0 TO 50.0 GHz.) *                       | _____                | VSWR 1.50 MAX.                  |
| INSERTION LOSS (dB MAX.)                    | _____                | .10 dB x $\sqrt{\text{FGHz}}$ . |
| NOMINAL IMPEDANCE (OHMS)                    | _____                | 50                              |
| VOLTAGE RATING (MAX. VRMS)                  | <input type="text"/> | 325 @ SEA LEVEL                 |
| (OVER FREQ. RANGE)                          |                      | 45 @ 70,000 FEET                |
| RF LEAKAGE (MIN. dB DOWN)                   | <input type="text"/> | 80 dB (3 GHz. MAX.)             |
|   |                      | 65 dB (26.5 GHz. MAX.)          |
| TEMPERATURE RATING (DEGREES CENTIGRADE)     | _____                | -65 ° c TO + 165 ° c            |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | <input type="text"/> | 500 @ SEA LEVEL                 |
|   |                      | 125 @ 70,000 FEET               |
| INSULATION RESISTANCE (MIN. MEGOHMS)        | _____                | 5,000                           |
| CONTACT RESISTANCE                          |                      |                                 |
| • CENTER CONTACT (MAX. MILLIOHMS)           | _____                | 2.0                             |
| • OUTER CONTACT (MAX. MILLIOHMS)            | _____                | 2.0                             |

\* TESTED IN ACCORDANCE WITH DSCC 94007 VSWR PROCEDURE.

**RoHS**  
COMPLIANT

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE    | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES |               |                             | <br>HAVERHILL, MA. 01835 |
|------|---------|---------|------|--|---------------|-----------------------------|---|
|      |         |         |      | DECIMALS                               | FRACTIONAL    | ANGULAR                     |   |
| AA   | 16-2485 | 12/2/16 | TS   | .X ± .030<br>.XX ± .010<br>.XXX ± .005 | ± 1/64        | X ° ± 1 '0"<br>X ° X' ± 15' | TITLE<br><b>SMPM,<br/>INTERCONNECT ADAPTER<br/>FEMALE TO FEMALE</b>   |
| AB   | 17-1281 | 2/28/17 | TS   | SURFACE ROUGHNESS 63 √ MIL-STD 10.     |               |                             |   |
|      |         |         |      | DRAWN TS                               | DATE 11/15/05 |                             | DWG. NO. <b>1100-3030-5431</b>  |
|      |         |         |      | APPROVED DC                            | DATE 11/15/05 |                             |   |
|      |         |         |      | CODE IDENT.<br><b>2J899</b>            | SHEET 1 OF 2  |                             |   |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 1.5 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A

RADIAL MISALIGNMENT \_\_\_\_\_ .010 MIN.  
AXIAL MISALIGNMENT \_\_\_\_\_ .000/.007

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ A.) FULL DETENT \_\_\_\_\_ 100  
B.) SMOOTH BORE \_\_\_\_\_ 1000

CONNECTOR ENGAGEMENT (MAX. LBS) \_\_\_\_\_ A.) FULL DETENT \_\_\_\_\_ 5.0  
B.) SMOOTH BORE \_\_\_\_\_ 2.0

CONNECTOR DISENGAGEMENT (MIN. LBS) \_\_\_\_\_ A.) FULL DETENT \_\_\_\_\_ 2.5  
B.) SMOOTH BORE \_\_\_\_\_ 0.5

## 4. ENVIRONMENTAL

THERMAL SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 107, COND. B ( HIGH TEMP. +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,  
1000 MEGOHMS MINIMUM WITHIN 5 MINUTES.  
CORONA (70,000 FEET) \_\_\_\_\_ 125 VRMS  
RF HIGH POTENTIAL MIN. VOLTS \_\_\_\_\_ 200 VRMS @ SEA LEVEL, FREQ. 5 MHz.  
VIBRATION, RANDOM \_\_\_\_\_ MIL-STD 202, METHOD 214, TEST CONDITION F

## 5. MATERIAL

CONNECTOR BODY AND CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER  
ALLOY No. UNS C17300, TEMPER TD04.  
INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

CONNECTOR BODY \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THK.) OVER NICKEL SAE AMS PER QQ-N-290, CLASS 1  
(.000100 MIN. THK.) OVER COPPER PER AMS 2418 (.000040 MIN.)  
CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1  
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN.)  
INSULATOR \_\_\_\_\_ N/A