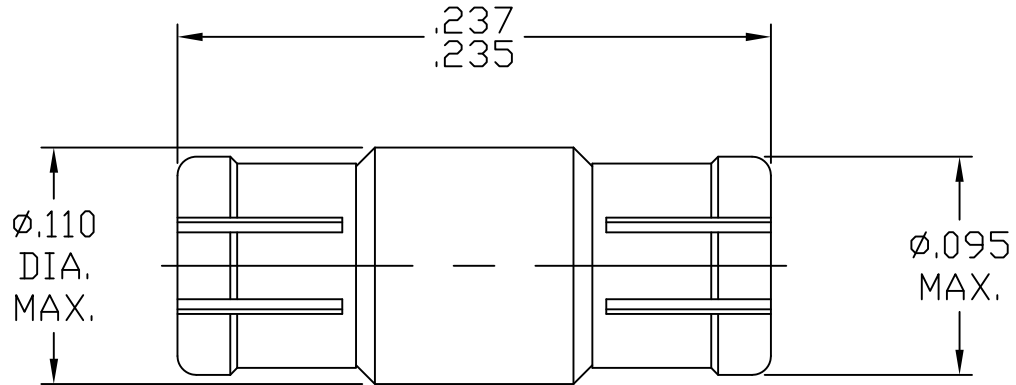


# SPECIFICATION CONTROL DRAWING



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**

This Document contains proprietary and confidential information. **COMPLIANT**

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 HAVERHILL, MA. 01835
AA	16-2485	11/15/05	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005 FRACTIONAL ± 1/64 ANGULAR X ° ± 1' 0" X ° X' ± 15"	<b>TITLE</b> SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE
AB	17-1281	2/28/17	TS	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$ .	
				DRAWN TS      DATE 11/15/05 APPROVED DC      DATE 11/15/05	
				CODE IDENT. 2J899	SHEET 1 OF 2 DWG. NO. 1100-3030-5453

# 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 PER SAE AMS 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