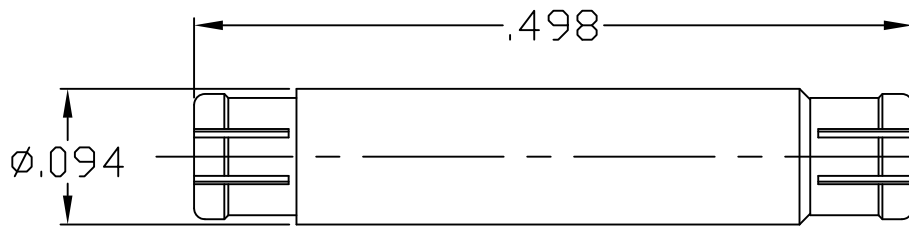


# SPECIFICATION CONTROL DRAWING



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 $\sqrt{FGHz}$ .
NOMINAL IMPEDANCE (OHMS) _____	50
VOLTAGE RATING (MAX. VRMS) _____	170 @ SEA LEVEL
(OVER FREQ. RANGE) _____	45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN) _____	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) _____	500 @ SEA LEVEL
	125 @ 70,000 FEET
INSULATION RESISTANCE (MIN. MEGOHMS) _____	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS) _____	6.0
• OUTER CONTACT (MAX. MILLIOHMS) _____	2.0

**RoHS**  
COMPLIANT

\* TESTED IN ACCORDANCE WITH DSCC 94007 VSWR PROCEDURE.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
AA	13-1112	1/23/13	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1' 0" X° X' ± 15"	
				DRAWN	SS	DATE 1/23/13	<b>TITLE</b> SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE
				APPROVED	DC	DATE 1/23/13	
				CODE IDENT.	SHEET 1 OF 2		<b>DWG. NO.</b> 1100-3030-5422
				2J899			

# 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.) DETENT \_\_\_\_\_ 100

B.) SMOOTH BORE \_\_\_\_\_ 1000

CONNECTOR ENGAGEMENT (MAX. LBS) \_\_\_\_\_ A.) DETENT \_\_\_\_\_ 5.0

B.) SMOOTH BORE \_\_\_\_\_ 2.0

CONNECTOR DISENGAGEMENT (MIN. LBS) \_\_\_\_\_ A.) 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) \_\_\_\_\_ 190 VRMS

RF HIGH POTENTIAL MIN. VOLTS \_\_\_\_\_ 325 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 - .000100 THK.) OVER NICKEL PER  
SAE-AMS-QQ-N-290, CLASS 1 (.000100 MIN. THK.)  
OVER COPPER PER AMS-2418, (.000040 MIN. THK.).

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, 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.)

INSULATOR \_\_\_\_\_ N/A