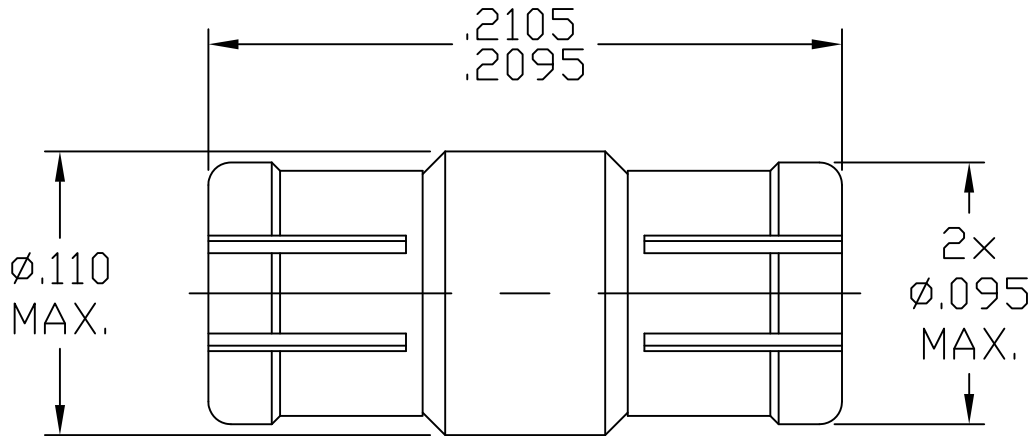


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

FREQUENCY RANGE _____	DC TO 65.0 GHz.
(DC TO 18.0 GHz.) * _____	VSWR 1.15 MAX.
(18.0 TO 40.0 GHz.) * _____	VSWR 1.25 MAX.
(40.0 TO 65.0 GHz.) * _____	VSWR 1.35 MAX.
INSERTION LOSS (dB MAX.) _____	.12 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS) _____	50
VOLTAGE RATING (MAX. VRMS) _____	217 @ SEA LEVEL
(OVER FREQ. RANGE) _____	42 @ 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
	80 @ 70,000 FEET
INSULATION RESISTANCE (MIN. MEGOHMS) _____	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS) _____	6.0
• OUTER CONTACT (MAX. MILLIOHMS) _____	2.0

\* TESTED IN ACCORDANCE WITH DSCC 10019 VSWR PROCEDURE.

**RoHS**  
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			<small>INCORPORATED HAVERHILL, MA 01835</small>
				DECIMALS	FRACTIONAL	ANGULAR	
AA	18-1554	5/17/18	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1° 0' X°, X' ± 15'	
				SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN DC	DATE 5/17/18	<b>TITLE</b> SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE	
				APPROVED DC	DATE 5/17/18		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO.	1100-3030-5421

# 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, RANDOM \_\_\_\_\_ MIL-STD 202, METHOD 214, TEST CONDITION F
- 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.

## 5. MATERIAL

- CONNECTOR BODY AND CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B 196-M03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
- INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710 TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

- CONNECTOR BODY \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000100 MIN.) OVER COPPER PER AMS-2418 (.000040 MIN.)
- CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN.) OVER COPPER PER AMS-2418 (.000010 MIN.)
- INSULATOR \_\_\_\_\_ N/A