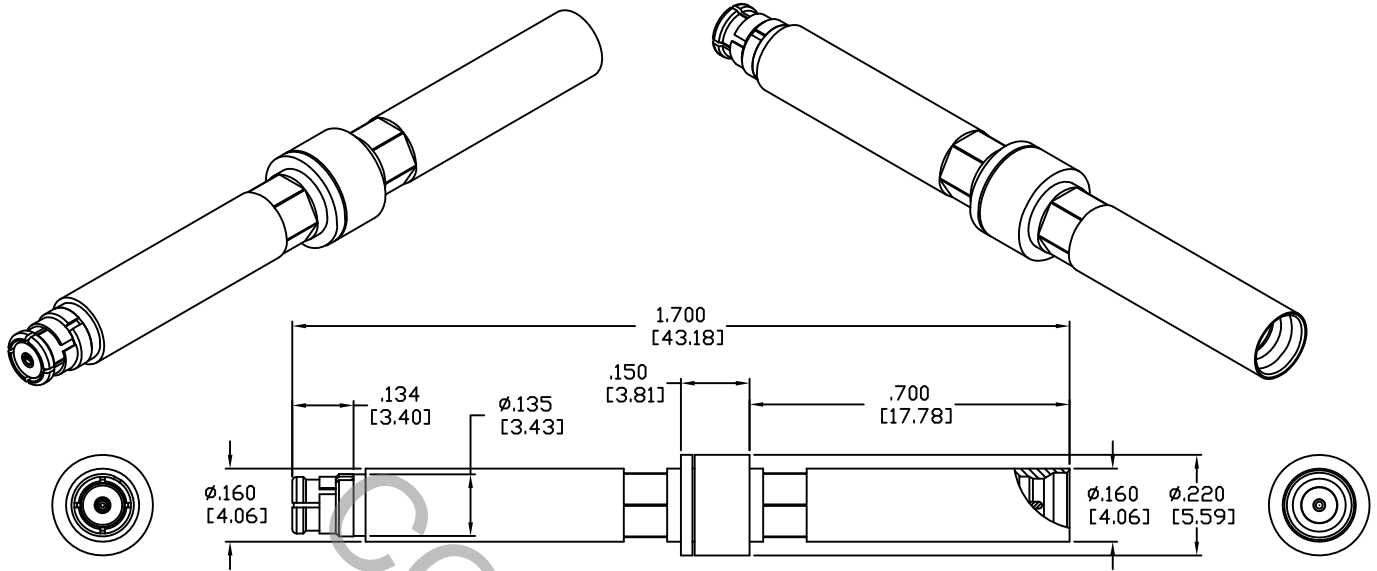


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.1a (SMP FEMALE) AND Fig. 326.2 (SMP MALE, FULL DETENT).


## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 40.0 GHz
VSWR (MAX.) *	_____	1.09 + .015 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.10 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	150
RF LEAKAGE (MIN. dB DOWN)	_____	-65 dB - 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)	_____	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835	
AA	14-1715	6/11/14	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1° 0' X ° X' ± 15'	TITLE SMP FEMALE, SMP MALE, FULL DETENT ADAPTER	
BA	14-1944	8/5/14	DC					
				DRAWN	TS	DATE	6/11/14	
				APPROVED	DC	DATE	6/11/14	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO.	1100-2021-6200
				2J899				

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT  
 MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.  
 MIN. 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.) \_\_\_\_\_ SMP FEMALE, 15.0 MAX., 5.0 MIN., (FULL DETENT)  
 SMP FEMALE, 10.0 MAX., 2.0 MIN., (LIMITED DETENT)  
 SMP FEMALE, 2.0 MAX., 0.5 MIN., (SMOOTH BORE)  
 SMP FEMALE DURABILITY (MIN. CYCLES) \_\_\_\_\_ 1000 (SMOOTH BORE)  
 250 (LIMITED DETENT)  
 100 (FULL DETENT)

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 107, 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

SMP MALE BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A  
 CONTACT, SMP FEMALE BODY, ANTI-ROCK RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER  
 AND EMI RING \_\_\_\_\_ ALLOY No. UNS-C17300, TEMPER TD04.  
 INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

SMP MALE BODY \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.  
 CONTACT, SMP FEMALE BODY, ANTI-ROCK RING \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27  
 AND EMI RING \_\_\_\_\_ (.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