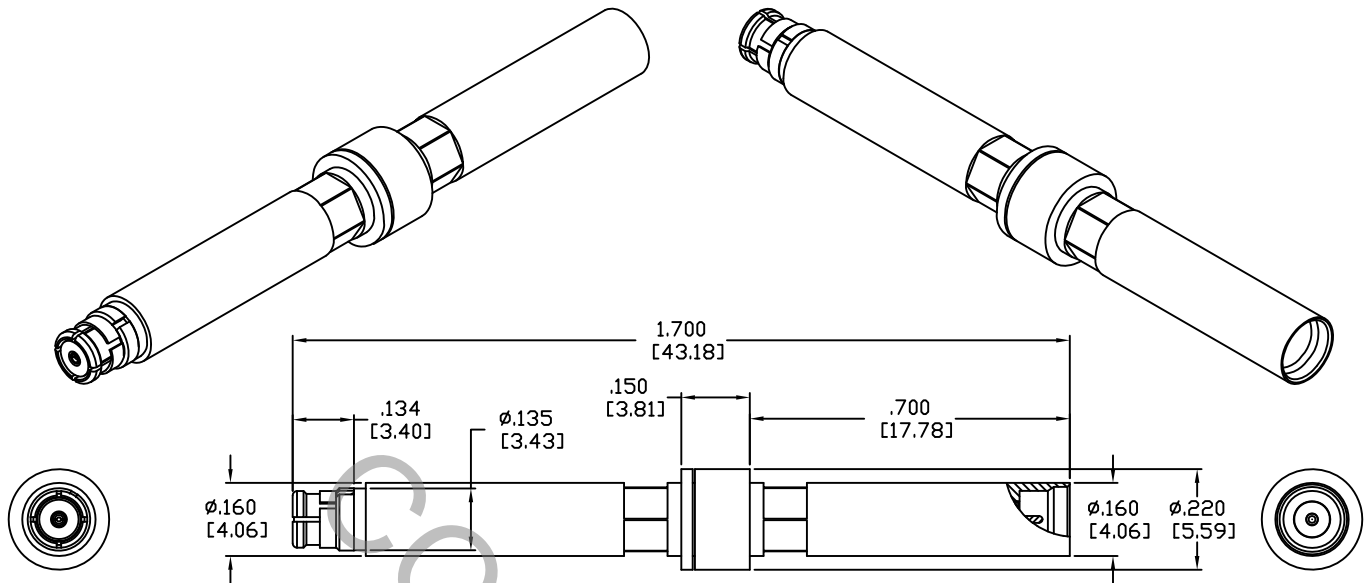


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.1a (SMP FEMALE) AND Fig. 326.4 (SMP MALE, SMOOTH BORE).


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	14-1943	8/5/14	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1° 0' X ° X' ± 15'	TITLE SMP FEMALE, SMP MALE, SMOOTH BORE ADAPTER		
				DRAWN	DC	DATE			8/5/14
				APPROVED	DC	DATE			8/5/14
				CODE IDENT.	SHEET 1 OF 2		DWG. NO.	1109-2021-6200	
				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