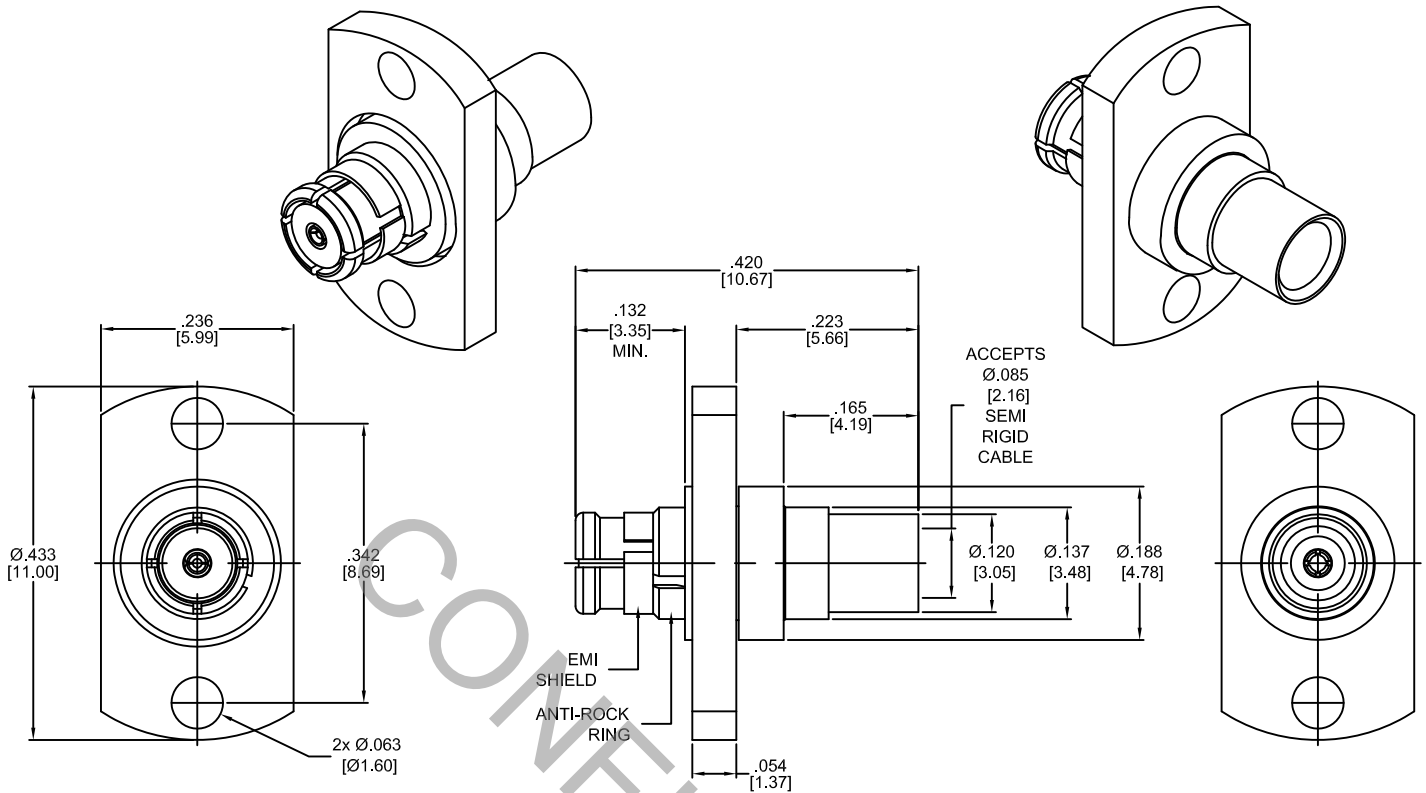


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 326.1a (SMP FEMALE).

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 40.0 GHz
VSWR (MAX) *	_____	1.07 + .010 x FGHz
INSERTION LOSS (dB MAX) *	_____	.10 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	-65 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	13-1788	5/30/13	TS	DECIMALS	FRACTIONAL	ANGULAR	
AB	14-2010	8/14/14	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1'0" X ° X' ± 15'	
				DRAWN TS	DATE 5/30/13	TITLE SMP FEMALE 2 HOLE ROTATING FLANGE DIRECT SOLDER TO Ø.085 SEMI-RIGID	
				APPROVED DC	DATE 5/30/13		
				CODE IDENT. 2J899	SHEET 1 OF 2		

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
MAX AXIAL FORCE _____ 4.5 LBS.
MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES
● INSERTION (MAX. OUNCES) _____ INTERFACE 32.0
● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 1.0

CONNECTOR ENGAGEMENT (MAX. LBS.) _____ 15.0 (FULL DETENT)
10.0 (LIMITED DETENT)
0.5 (SMOOTH BORE)

CONNECTOR DURABILITY (MIN. CYCLES) _____ 100 (FULL DETENT)
250 (LIMITED DETENT)
500 (SMOOTH BORE)

RECOMMENDED MATING TORQUE _____ N/A

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, 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.) (190 VRMS)

5. MATERIAL

FLANGE & SPACER _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
BODY, CONTACT, EMI SHIELD & ANTI-ROCK RING _____ 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

BODY, EMI SHIELD, ANTI-ROCK RING & 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
(.000100 MIN. THK.) OVER COPPER PER AMS-2418 (.000040 MN. THK.)

FLANGE & SPACER _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

INSULATOR _____ N/A