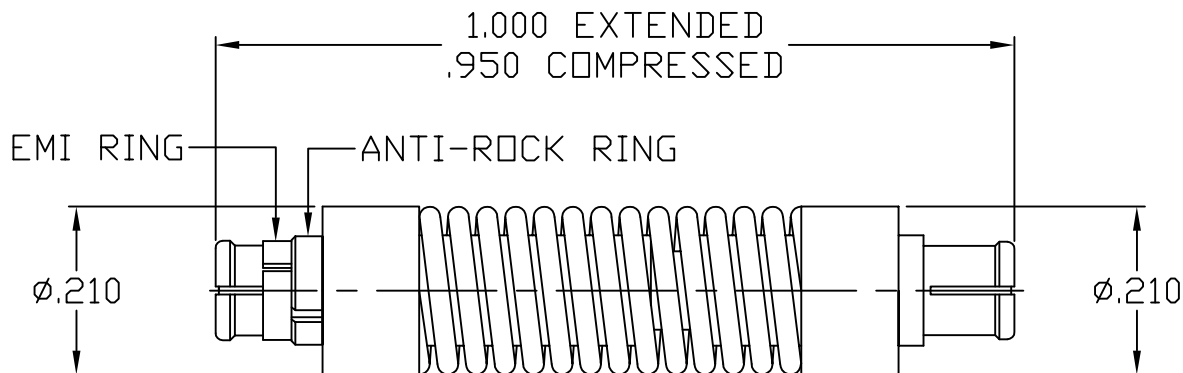


# SPECIFICATION CONTROL DRAWING




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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX) *	1.10 + .015 x FGHz
INSERTION LOSS (dB MAX) *	.15 dB x √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)	450
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	06-1085	1/24/06	DC	DECIMALS	FRACTIONAL	ANGULAR	
BA	07-2099	11/8/07	DC	.X + .030 .XX ± .010 .XXX ± .005	±1/64	X ° ± 1 0' X ° X ± 15'	
				DRAWN DC	DATE 1/24/06	TITLE SMP FEMALE TO SMP FEMALE FLOATING ADAPTER	
				APPROVED DC	DATE 1/24/06		
				CODE IDENT.	SHEET 1 OF 2	DWG. NO.      1160-2020-5406	
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT	
MAX AXIAL FORCE	2.5 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. IN LBS.)	15.0 FULL DETENT, 10.0 LIMITED DETENT, 2.0 SMOOTH BORE
CONNECTOR DISENGAGEMENT (MAX. IN LBS.)	5.0 FULL DETENT, 2.0 LIMITED DETENT, 0.5 SMOOTH BORE
CONNECTOR DURABILITY (MIN. CYCLES)	100 FULL DETENT, 500 SMOOTH BORE
RECOMMENDED MATING PRELOAD	.025 (.975 O.A.L.)
CONNECTOR FLOAT	+/- .020 FROM RECOMMENDED PRELOAD
CONNECTOR AXIAL SPRING FORCES	
● INSTALLED (IN POUNDS)	2.83 +/-10%
● @ .025 PRELOAD (IN POUNDS)	3.09 +/-10%
● @ FULL COMPRESSION (IN POUNDS)	3.35 +/-10%

## 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. ) ( 110 VRMS )

## 5. MATERIAL

BODIES AND CONTACTS	BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
BUSHING	BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000
SPRING	STAINLESS STEEL PER AMS 5688, TYPE 302, SPRING TEMPER
INSULATORS	TEFLON PER ASTM-D-1710.

## 6. FINISH

BODIES & BUSHING	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 MIN. THK) OVER COPPER PER MIL-C-14550 (.000010 MIN. THK.)
CONTACTS	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN. THK.) OVER NICKEL per QQ-N-290 (.000050 MIN. THK.) OVER COPPER per MIL-C-14550 (.000010 MIN. THK.)
INSULATORS & SPRING	N/A