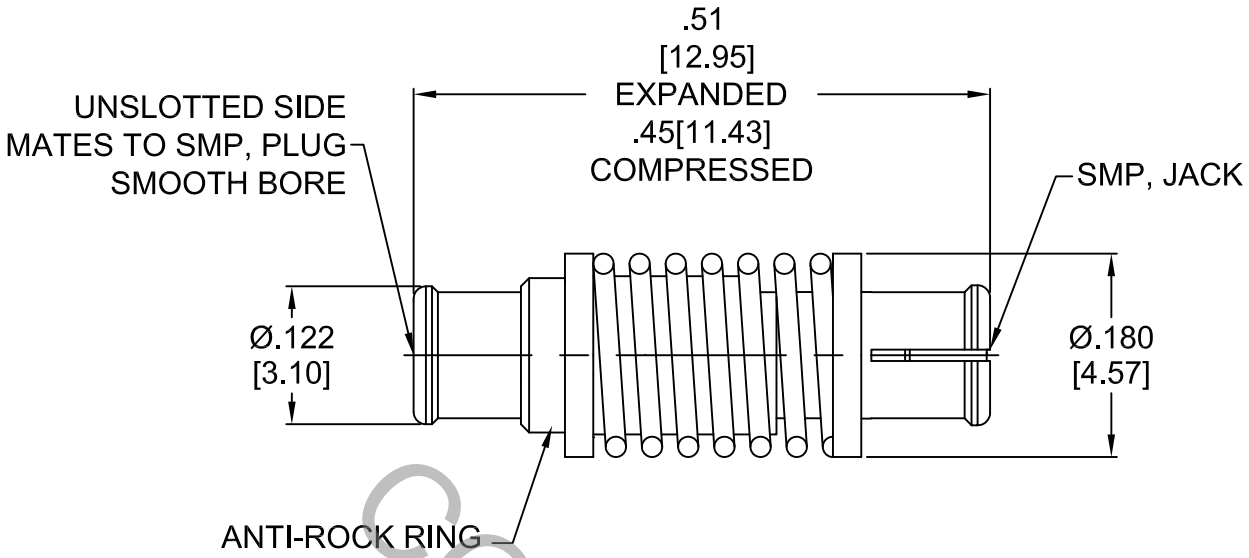
SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.12 + .015 x FGHz
INSERTION LOSS (dB MAX.) ❋	.15 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)	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

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	16-2503	12/2/16	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±1/64	X °±1 0' X ° X' ±15'

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS	DATE 12/2/16
APPROVED DC	DATE 12/2/16

TITLE
SMP FEMALE TO SMP FEMALE FLOATING ADAPTER

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		1160-2020-5441

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, .05 SMOOTH BORE
CONNECTOR DURABILITY (MIN. CYCLES)	100 FULL DETENT, 500 LIMITED DETNT, 1,000 SMOOTH BORE
RECOMMENDED MATING PRELOAD	.025 (.975 O.A.L.)
CONNECTOR FLOAT	–.047 FROM FREE LENGTH SHOWN
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/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
SPRING	STAINLESS STEEL PER AMS 5688, TYPE 302, SPRING TEMPER
INSULATORS	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B..

6. FINISH

BODIES	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 (.000150 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
CONTACTS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE AME QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
SPRING	PASSIVATE PER AMS 2700, TYPE 1, GRADE 1, CLASS 4.
INSULATORS	N/A