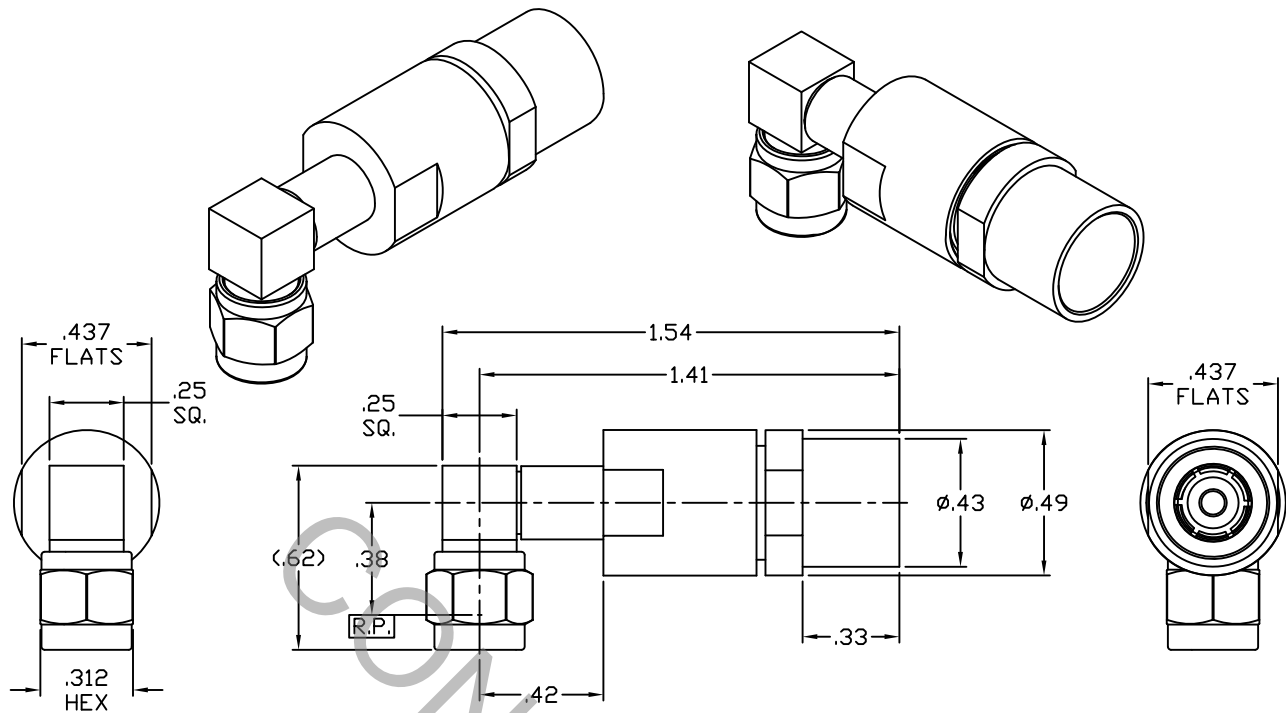


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 12.4 GHz
VSWR (MAX.) *	_____	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.06 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	333
RF LEAKAGE (MIN. dB DOWN)	_____	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,000
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
				DECIMALS	FRACTIONAL	ANGULAR	
-	1069	3/94	TS	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'	
AA	10-1893	9/22/10	DC				
				DRAWN	TS	DATE	3/94
				APPROVED	TS	DATE	3/94
				CODE IDENT.			DWG. NO.
				2J899	SHEET 1 OF 2		9801-2502-6202
				TITLE			SMA PLUG, RIGHT ANGLE, CLAMP ATTACHMENT, SUPERFLEX® FSJ1(RN)-50A

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) _____ N/A
● WITHDRAWAL (MIN. OUNCES) _____ N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX LBS.) _____ 2.0
CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

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.) (250 VRMS)

5. MATERIAL

BODY, CLAMP NUT & COUPLING NUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
CABLE CONTACT _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INSULATORS _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
GASKET _____ SILICONE RUBBER PER ZZ-R-765.
RETAINING RING _____ PHOSPHOR BRONZE PER ASTM-B139.
R/A CONTACT, BUSHING & FERRULE _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

6. FINISH

BODY, CLAMP NUT & COUPLING NUT _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.
BUSHING AND FERRULE _____ SILVER PER QQ-S-365, TYPE 2, GRADE A,
(.000200 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)
CONTACTS _____ 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 (.000050 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)
INSULATORS, RETAINING RING & GASKET _____ N/A