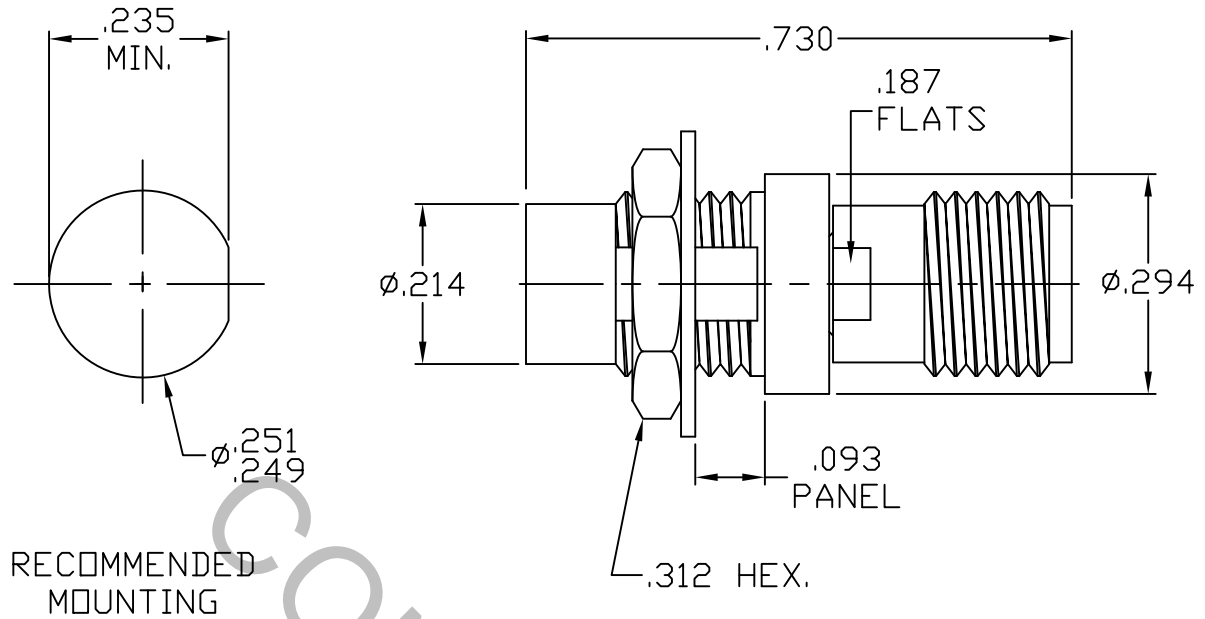


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMP MALE, SMOOTH BORE, CATCHERS MITT
Per MIL-STD-348A Fig 326.5 AND SMA JACK Fig 310.2


2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX.) *	_____	1.05 + .005 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	170
RF LEAKAGE (MIN. dB DOWN)	_____	-100 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)	_____	6.0
• 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	08-1266	3/11/08	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1° 0' X ° X' ± 15'	
AB	17-1175	2/3/17	DC				
				DRAWN TS	DATE 3/11/08	TITLE SMP MALE, SMOOTH BORE, CATCHERS MITT TO SMA JACK, BULKHEAD PANEL ADAPTER	
				APPROVED DC	DATE 3/11/08		
				CODE IDENT. 2J899	SHEET 1 OF 2		

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 3.5 LBS.

MAX RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCE

● INSERTION (MAX. LBS.) _____ 2.0 (SMOOTH BORE)

● WITHDRAWAL (MIN. LBS.) _____ 0.5 (SMOOTH BORE)

CONNECTOR DURABILITY (MIN. CYCLES) _____ 1,000

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS. (SMA)

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.) (125 VRMS)

5. MATERIAL

CONNECTOR BODIES, LOCKNUT AND LOCKWASHER _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A

CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.

INSULATORS _____ TEFLON PER ASTM D 1710-02, TYPE 1, CLASS 1, GRADE B.

6. FINISH

CONNECTOR BODIES, LOCKNUT AND LOCKWASHER _____ PASSIVATE PER AMS QQ-P-35, TYPE 2.

CENTER CONTACT _____ 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 _____ N/A