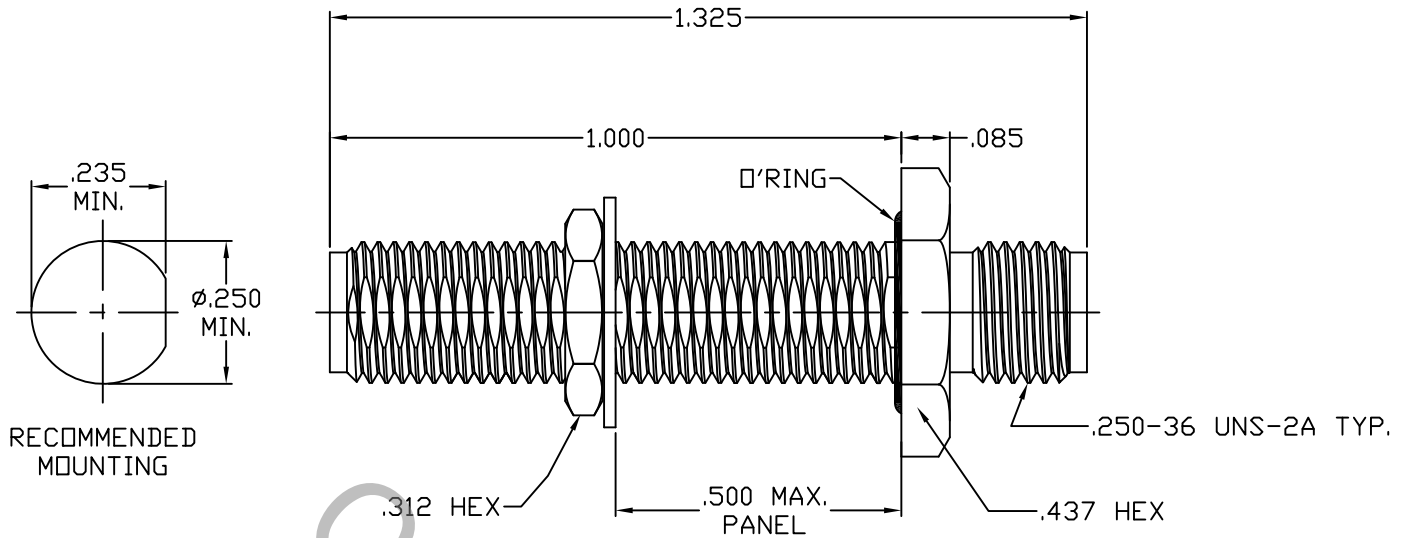


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.2 (SMA JACK).
2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) *	1.08 + .025 x FGHz
INSERTION LOSS (dB MAX.)	.125 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)	12.0
• 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	16-2314	10/20/16	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	TITLE SMA JACK TO SMA JACK, HERMETIC BULKHEAD ADAPTER
AB	16-2359	11/1/16	TS	FRACTIONAL ± 1/64	
				DRAWN TS DATE 10/20/16	DWG. NO. 1120-9999-6404
				APPROVED DC DATE 10/20/16	
				CODE IDENT. 2J899	SHEET 1 OF 2

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
 MIN. AXIAL FORCE _____ 4.0 LBS.
 MIN. RADIAL TORQUE _____ N/A
 CENTER CONTACT AXIAL FORCES
 ● INSERTION (MAX. OUNCES) _____ INTERFACE 48.0
 ● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0
 CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) _____ 2.0
 CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
 RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.
 RECOMMENDED MOUNTING TORQUE _____ 17 - 20 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)
 HERMETICITY _____ 1 x 10⁻⁸ cc/SEC.

5. MATERIAL

BODY & LOCKNUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
 LOCKWASHER _____ 400 SERIES STAINLESS STEEL
 CONTACTS _____ 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.
 GASKETS _____ SILICONE RUBBER PER ZZ-R-765.
 GLASS _____ CORNING 7070
 GLASS PIN _____ KOVAR PER MIL-I-23011
 O-RING _____ SILICONE RUBBER PER AMS-3304, GRADE 70

6. FINISH

BODY, LOCKNUT, LOCKWASHER AND GLASS PIN _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
 CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS)
 (.000010 MIN. THK.)
 CONTACTS _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
 (.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, O-RING AND GLASS _____ N/A