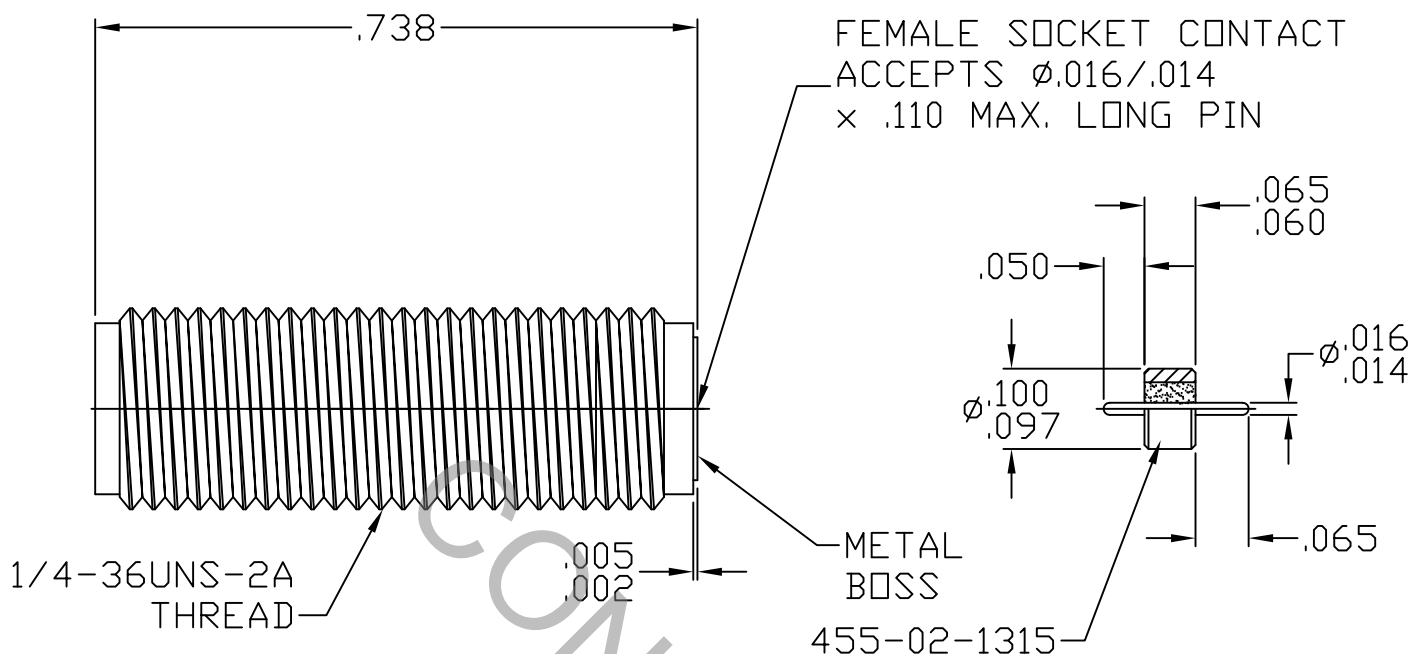


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX) *	$1.05 + .006 \times \text{FGHz}$
INSERTION LOSS (dB MAX) *	$.05 \text{ dB} \times \sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	$-100 \text{ dB} - \text{FGHz}$
TEMPERATURE RATING (DEGREES CENTIGRADE)	$-65^{\circ}\text{C TO } +165^{\circ}\text{C}$
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
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	
AA	09-1396	5/8/09	TS	.X ± .030		X ° ± 1° 0'	
BA	10-1686	7/29/10	TS	.XX ± .010	± 1/64	X ° X' ± 15'	
				DRAWN TS	DATE	5/8/09	
				APPROVED DC	DATE	5/8/09	
				CODE IDENT.			
				2J899	SHEET 1 OF 2		
				TITLE		SMA, JACK SCREW-IN MIC. PACKAGE WITH HERMETIC SEAL	
				DWG. NO.	9930-0828-6216		

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) _____ INTERFACE 48.0, REAR 32.0

● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0, REAR 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

RECOMMENDED MOUNTING TORQUE _____ 27 - 30 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65° c TO + 200° 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.) (190 VRMS)

HERMETICITY _____ BEAD SHALL NOT EXCEED A LEAK RATE OF 10-8 cc/SEC.
TRACER GAS OF HELIUM AT A PRESSURE DIFFERENTIAL OF 15 P.S.I.

5. MATERIAL

BODY _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

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

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

GLASS RING AND PIN _____ KOVAR PER MIL-I-23011.

GLASS _____ CORNING 7052

6. FINISH

BODY _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4

FEED THRU _____ GOLD PER ASTM-B-488, TYPE 1, CODE C, CLASS 2.50
(.000100 MIN. THK.) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000050/.000100 THK.) OVER NICKEL,
(WOODS OR WATTS), (.000010 MIN. THK.).

CONTACT _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5
(.00010 MIN. THK.) OVER NICKEL PER QQ-N-290,
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550
(.000010 MIN. THK.).

INSULATOR AND GLASS _____ N/A