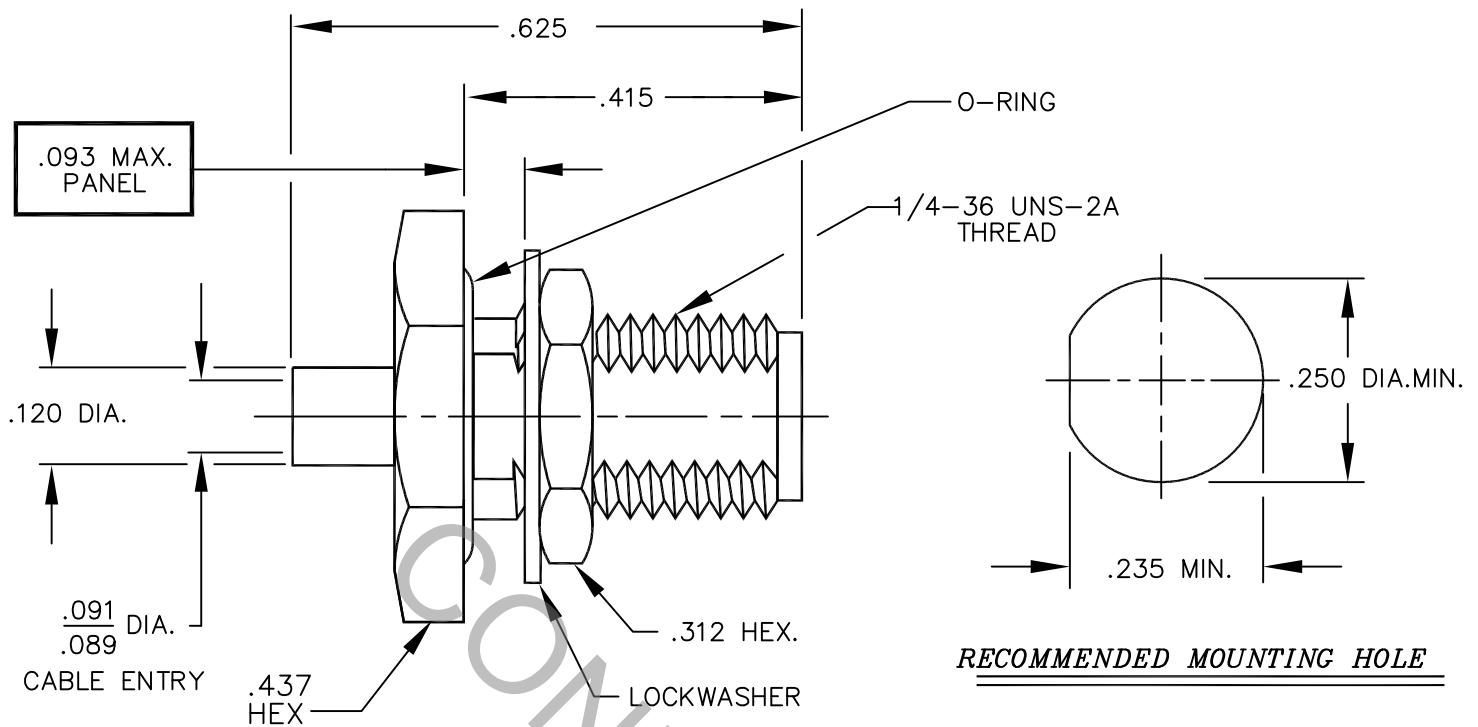


# SPECIFICATION CONTROL DRAWING



RECOMMENDED MOUNTING HOLE

1. MATING INTERFACE DIMENSIONS FOR SMA JACK per MIL-STD-348 (Fig. 310-2).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) *	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.)	.03 dB x FGHz
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• 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	
-	321	5/87	DGG	.X ± .030 .XX ± .010 .XXX ± .005	±/64	X ° ± 1 0' X ° X' ± 15'	
A	610	11/88	DGG				
AA	01-1162	12/6/01	DGG	DRAWN	CDM	DATE	5/87
AB	02-0827	10/10/02	BN	APPROVED	DGG	DATE	5/87
				CODE IDENT.		SHEET	1 OF 2
				2J899		DWG. NO.	9910-8520-6475

TITLE  
SMA, JACK  
BULKHEAD MOUNT  
TO .085 S.R. CABLE

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT	
MAX.AXIAL FORCE	N/A
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	48.0
● WITHDRAWAL (MIN. OUNCES)	2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	7 - 10 INCH 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. ) ( 375 VRMS )

## 5. MATERIAL

BODY AND HEX NUT	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER ALLOY No. UNS 17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.
LOCKWASHER	STAINLESS STEEL PER AMS-5640, TYPE 304
O-RING	SILICONE RUBBER PER ZZ-R-785, CLASS IIB, GRADE 50 OR 60

## 6. FINISH

BODY, HEX NUT AND LOCKWASHER	GOLD per ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.00010 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000040 Minimum Thickness).
CONTACT	GOLD per ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.00010 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000050 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000040 Minimum Thickness).
INSULATOR AND O-RING	N/A