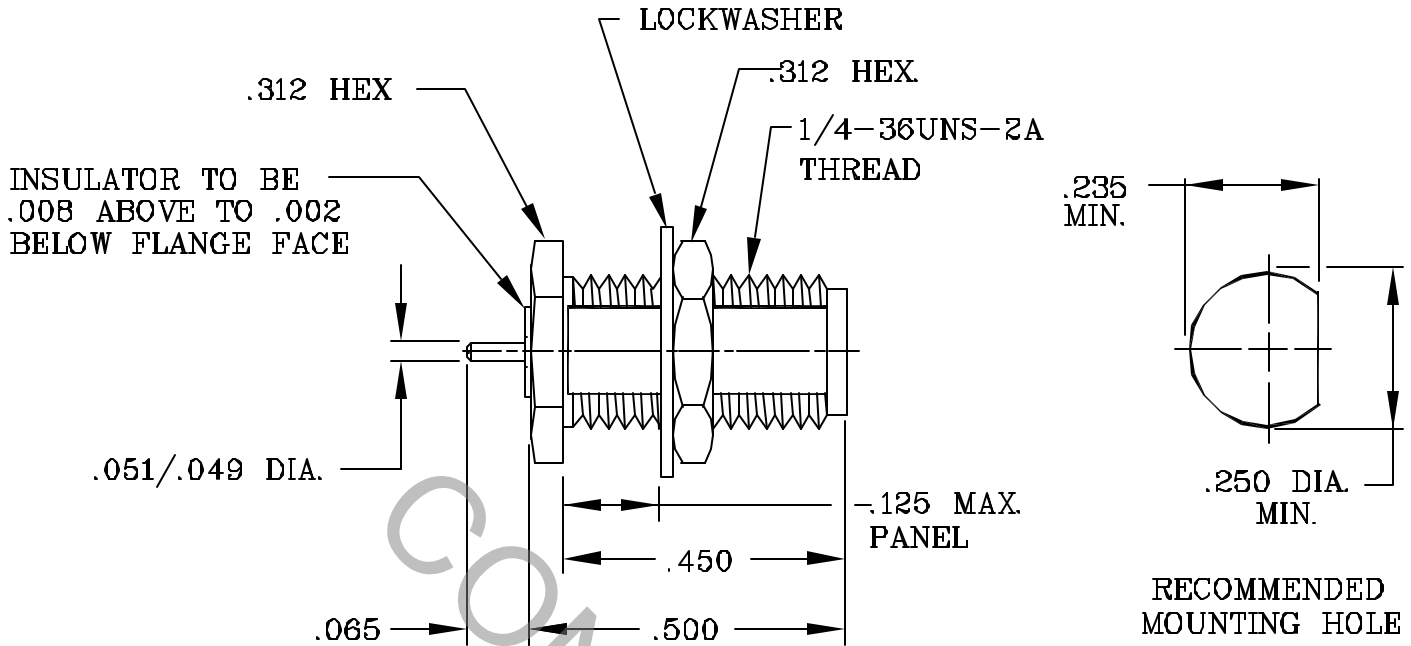


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	D.C. TO 10.0 GHz.
VSWR (MAX) *	_____	1.35 MAX.
INSERTION LOSS (dB MAX) *	_____	.05 dB x \sqrt{FGHz} .
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	500
RF LEAKAGE (MIN. dB DOWN)	_____	100 - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,500
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			INCORPORATED GEORGETOWN MA. 01833
—	652	3/89	T.S.	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .050 .XX ± .010 XXX ± .005	±/64	X° ± 16'	TITLE SMA JACK, BULKHEAD CAPTIVATED CONTACT .050 DIA. TERMINAL
				DRAWN	T.S.	DATE 3/89	
				APPROVED	DGG	DATE 3/89	
				CODE IDENT. 2J899	SHEET 1 OF 2		DWG. NO. 9910-0032-6455

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 8.0 LBS.

MAX. RADIAL TORQUE _____ 4 IN. OZ.

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 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.) (375 VRMS)

5. MATERIAL

BODY AND HEX NUT _____ STAINLESS STEEL PER ASTM A581, TYPE 303, COND. A

CONTACT _____ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.

INSULATOR _____ TEFLON PER D 1457.

LOCKWASHER _____ STAINLESS STEEL PER AMS 5640, TYPE 304, COND. A

6. FINISH

BODY AND HEX NUT _____ GOLD PER MIL-C-45204, TYPE II, GRADE C, CLASS 1 OVER NICKEL PER QQ-N-290 (.00010 MIN. THK.).

CONTACT _____ GOLD per MIL-C-45204, TYPE II, GRADE C, CLASS 2 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickness).

LOCKWASHER _____ GOLD PER MIL-C-45204, TYPE I, GRADE C, CLASS 1 OVER COPPER PER MIL-C-14550, CLASS 4, (.000100 MIN. THICK)

INSULATOR _____ N/A