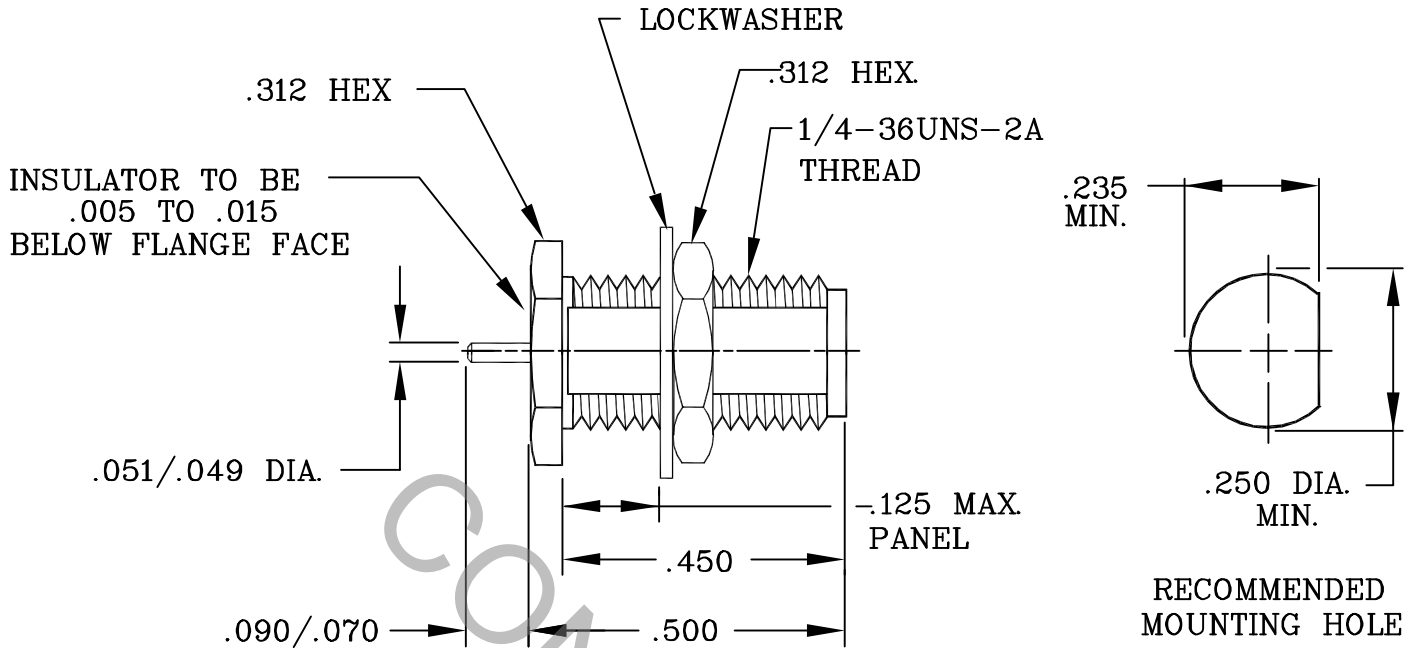


# SPECIFICATION CONTROL DRAWING




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 $\sqrt{\text{FGHz}}$ .
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			 HAVERHILL, MA. 01835
AA	05-1250	2/23/05	TS	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	±1/64	X ° ± 1 0' X ° X' ± 15'	TITLE SMA JACK, BULKHEAD CAPTIVATED CONTACT .050 DIA. TERMINAL
				DRAWN	T.S.	DATE 2/25/05	
				APPROVED	DC	DATE 2/25/05	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9910-0032-6402
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE	6.0 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 ( -66° 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-630, 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 ASTM B 488, TYPE I, CODE C, CLASS 1.25 (.00005 MIN. THK.) OVER NICKEL PER QQ-N-290 (.00005 MIN. THK.).
CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000050 Minimum Thickness)
LOCKWASHER	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.75 (.00003 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000050 Minimum Thickness)
INSULATOR	N/A