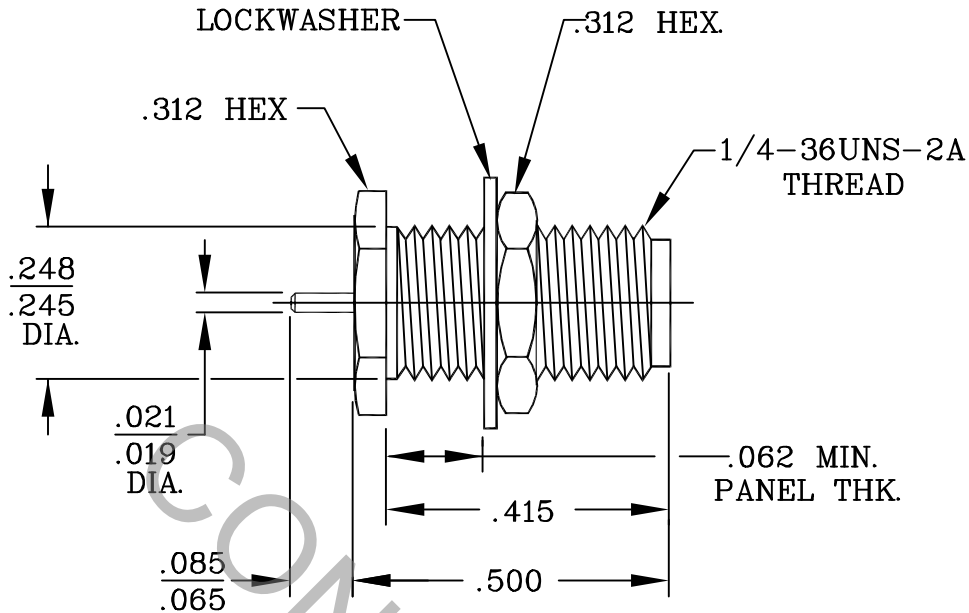


SPECIFICATION CONTROL DRAWING




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

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	D.C. TO 26.5 GHz
VSWR (MAX) *	_____	1.04 + .008 x FGHz.
INSERTION LOSS (dB MAX) *	_____	.04 + 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)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERRILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
-	984	7/93	MB	.X ± .030 .XX ± .010 .XXX ± .005	±/64	X° ± 1' 0" X° X' ± 15'	
AA	05-1616	5/23/05	DC				TITLE
				DRAWN	M.B.	DATE	7/93
				APPROVED	DGG	DATE	7/93
				CODE IDENT.	SHEET 1 OF 2		DWG. NO.
				2J899			9910-0431-6525

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE	6.0 LBS.
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 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	1 x 10 ⁻⁸ cc/SEC.

5. MATERIAL

BODY AND LOCKNUT	STAINLESS STEEL PER ASTM A581, TYPE 303, COND. A.
CONTACT	BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300 TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 4894-91
LOCKWASHER	STAINLESS STEEL PER AMS 5640, TYPE 304, COND. A
GLASS PIN	KOVAR PER MIL-I-23011
GLASS	CORNING 7070.
GASKET	SILICON PER ZZ-R-765, CLASS IIB, GRADE 50 or 60.

6. FINISH

BODY, GLASS PIN AND LOCKNUT	GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 2 OVER NICKEL PER MIL-C-26074, CLASS 1 (.000150 MIN. THICK)
CONTACT	GOLD per MIL-G-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-G-45204, TYPE I, GRADE C, CLASS 1 OVER COPPER PER MIL-C-14550, CLASS 4, (.000100 MIN. THICK)
INSULATOR AND GASKET	N/A