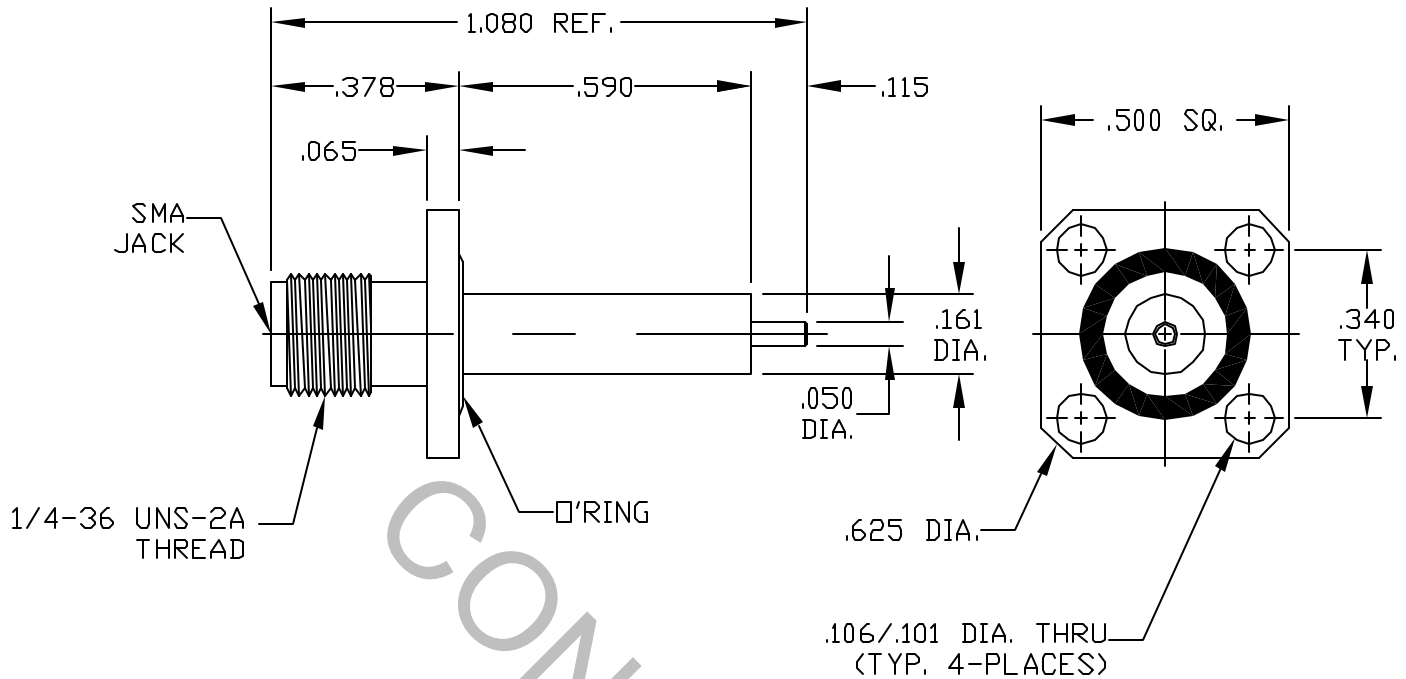


SPECIFICATION CONTROL DRAWING




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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) *	1.10 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	.07 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ^o c TO + 165 ^o c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	18.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01836
AA	05-1784	8/9/05	TS	DECIMALS	FRACTIONAL	ANGULAR	
				X ±.030 XX ±.010 XXX ±.005	±1/64	X °± f 0' X °X'± 15'	
				DRAWN	T.S.	DATE	8/9/05
				APPROVED	DC	DATE	8/9/05
				CODE IDENT.	SHEET 1 OF 2		DWG. No. 9954-0431-6850
				2J899			HERMETIC SMA, JACK 4 HOLE FLG. MOUNT

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX. AXIAL FORCE	8.0 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
• INSERTION (MAX. OUNCES)	INTERFACE 48.0 OZ.
• WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0 OZ.
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 (-85° c TO +200° c)
SHOCK	MIL-STD-202, METHOD 219, 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 PRESS RING	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
INSULATOR	TEFLON PER MIL-P-19468 AND L-P-403, TYPE I
GLASS	CORNING 7070 OR EQUIVALENT
CONTACT AND GLASS PIN	KOVAR PER MIL-I-23011
O-RING	ETHYLENE PROPLENE PER ASTM D2000-70 (PARKER COMPOUND NUMBER E540-80)

6. FINISH

GLASS PIN	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 Minimum Thickness) OVER NICKEL PER QQ-N-290, CLASS 1, (.000150 Minimum Thickness) OVER NICKEL (WOODS OR WATTS), (.000010 Minimum Thickness).
CONTACT	GOLD per ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290 (.000050 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickness).
CONNECTOR BODY AND PRESS RING	PASSIVATE PER QQ-P-35C, TYPE 6
INSULATOR AND O-RING	N/A