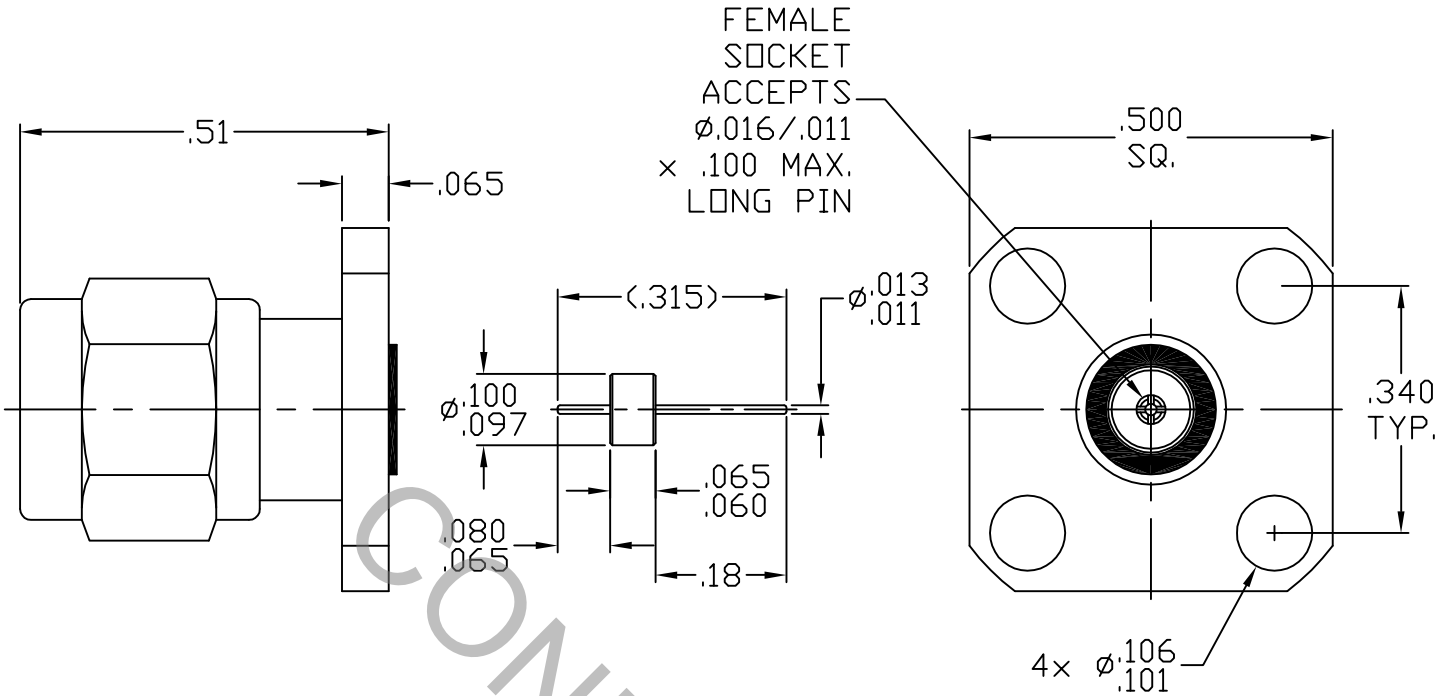


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX) *	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX) *	.03 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°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• 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
AA	07-2056	10/31/07	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1'0" X ° X ± 15'	
				DRAWN DC	DATE 10/31/07	TITLE SMA PLUG 4 HOLE FLANGE FIELD REPLACEABLE WITH $\phi .012$ GLASS FEED THRU	
				APPROVED DC	DATE 10/31/07		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9854-0712-6215	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
MAX AXIAL FORCE _____ 4.5 LBS.
MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES
● INSERTION (MAX OUNCES) _____ INTERFACE 32.0, REAR 32.0
● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0, REAR 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX 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 + 165° 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 _____ BEAD SHALL NOT EXCEED A LEAK RATE OF 10-8 cc/SEC.
TRACER GAS OF HELIUM AT A PRESSURE DIFFERENTIAL OF 15 P.S.I.

5. MATERIAL

BODY & COUPLING NUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 2, GRADE 1, CLASS A.
GLASS RING AND PIN _____ KOVAR PER MIL-I-23011.
GLASS _____ CORNING 7052
GASKET _____ SILICONE RUBBER PER ZZ-R-765.
EMI GASKET _____ SILVER PLATED ALUMINUM IN SILICONE

6. FINISH

BODY & COUPLING NUT _____ PASSIVATE PER AMS QQ-P-35, TYPE 2.
FEED THRU _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL per MIL-P-27418
(.000100 MIN. THK.) OVER NICKEL, WOODS OR WATTS
(.000010 MIN. THK.)
CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5
(.000100 MIN. THK.) OVER NICKEL per QQ-N-290
(.000050 MIN. THK.) OVER COPPER per MIL-C-14550
(.000010 MIN. THK.)
INSULATOR, RETAINING RING, GASKETS & GLASS _____ N/A