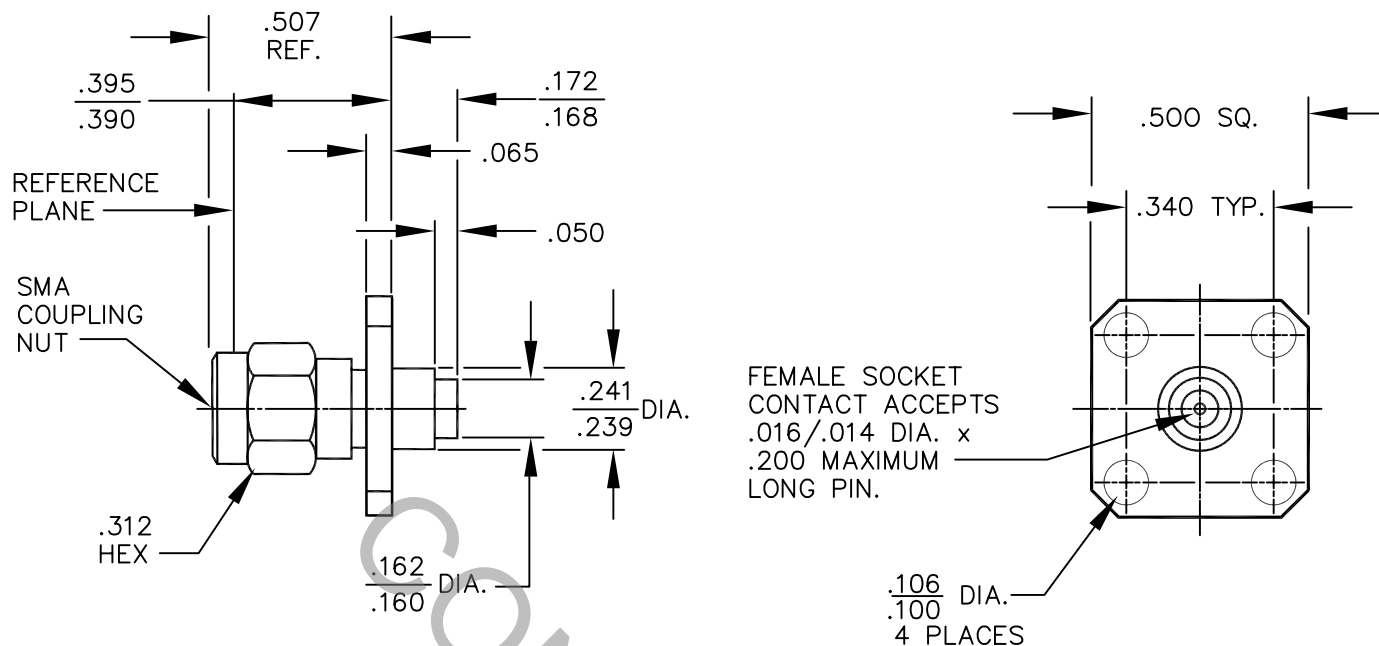


SPECIFICATION CONTROL DRAWING




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

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX.) *	_____	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.04 dB x 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)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	3.0
• 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
				DECIMALS .X ±.030 .XX ±.010 .XXX ±.005	FRACTIONAL ±/64	ANGULAR X ° ± 1 0' X ° X' ± 15'	
—	638	2/89	DGG	SURFACE ROUGHNESS 63 √MIL-STD-10.			TITLE FIELD REPLACEABLE SMA, PLUG 4 HOLE FLANGE BODY EXTENSION .170
A	648	2/89	DGG	DRAWN	RF	DATE 2/89	
B	691	8/89	DGG	APPROVED	DGG	DATE 2/89	
C	734	1/90	DGG				
				CODE IDENT. 2J899	SHEET 1 OF 2		DWG. NO. 9854-0081-6266

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) _____ INTERFACE 48.0 OZ. / FLANGE END 32.0 OZ.
● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0 OZ. / FLANGE END 1.5 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 (-65 °c TO + 200 °)
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)

5. MATERIAL

BODY AND COUPLING NUT _____ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
INSULATOR _____ TEFLON PER MIL-P-19468 AND L-P-403, TYPE I
GASKET _____ SILICONE RUBBER per ZZ-R-765
CLASS IIB, GRADE 50 or 60.

6. FINISH

BODY AND COUPLING NUT _____ PASSIVATE PER AMS QQ-P-35, TYPE 2
CONTACT _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5
(.00010 MIN. THK.) OVER NICKEL PER QQ-N-290
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550
(.000010 MIN. THK.).
INSULATOR, GASKET AND RETAINING RING _____ N/A