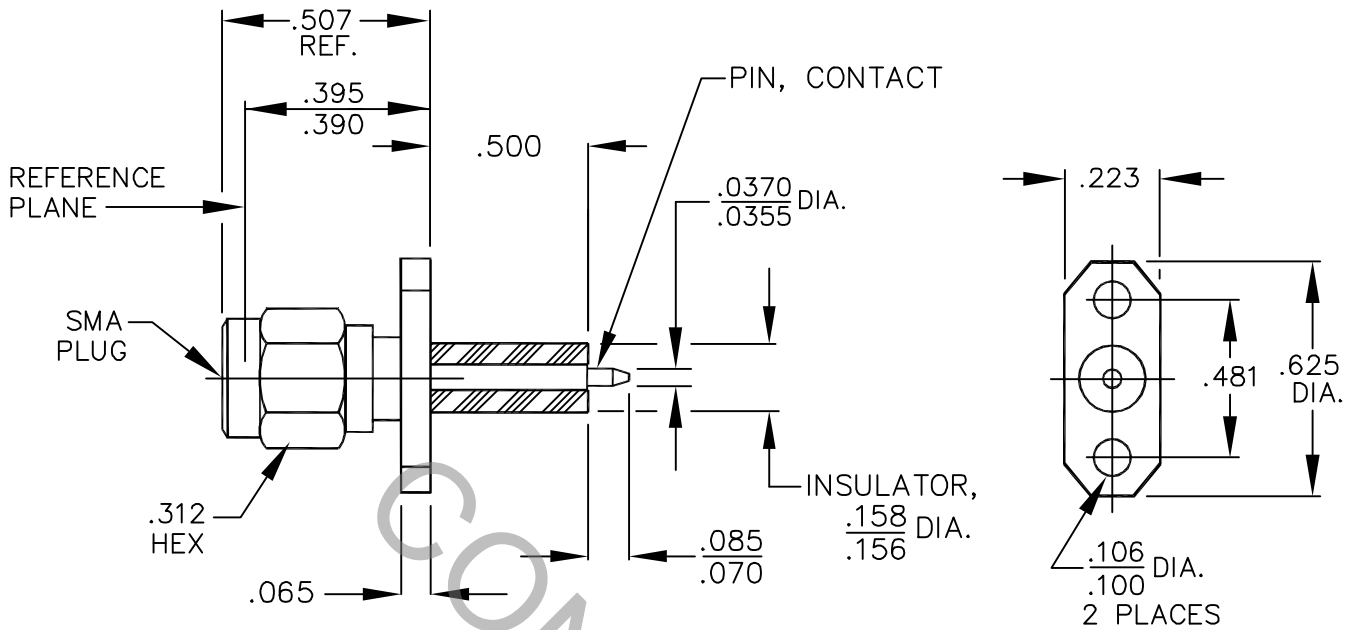


SPECIFICATION CONTROL DRAWING




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.) *	_____	1.07 + .010 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.04 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)	_____	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	00-0892	7/10/00	DGG	DECIMALS .X ±.030 .XX ±.010 .XXX ±.005	FRACTIONAL ±1/64	ANGULAR X° ±1'0" X° X' ±15'	
AB	00-0898	7/11/00	DGG	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL}}$ -STD-10.			
AC	00-0977	7/28/00	DGG	DRAWN	KLF	DATE 7/10/00	
				APPROVED	DGG	DATE 7/10/00	TITLE SMA, PLUG 2 HOLE FLANGE .036 DIA. PIN
				CODE IDENT.		SHEET 1 OF 2	
				2J899			DWG. NO. 9852-0031-6236

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 32.0 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 (-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)

5. MATERIAL

BODY AND COUPLING NUT	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND A.
CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 4894-91.
GASKET	SILICONE RUBBER per ZZ-R-765 CLASS IIB, GRADE 50 or 60.

6. FINISH

BODY AND COUPLING NUT	PASSIVATE PER QQ-P-35C, TYPE VI (6).
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).
INSULATOR, GASKET AND RETAINING RING	N/A