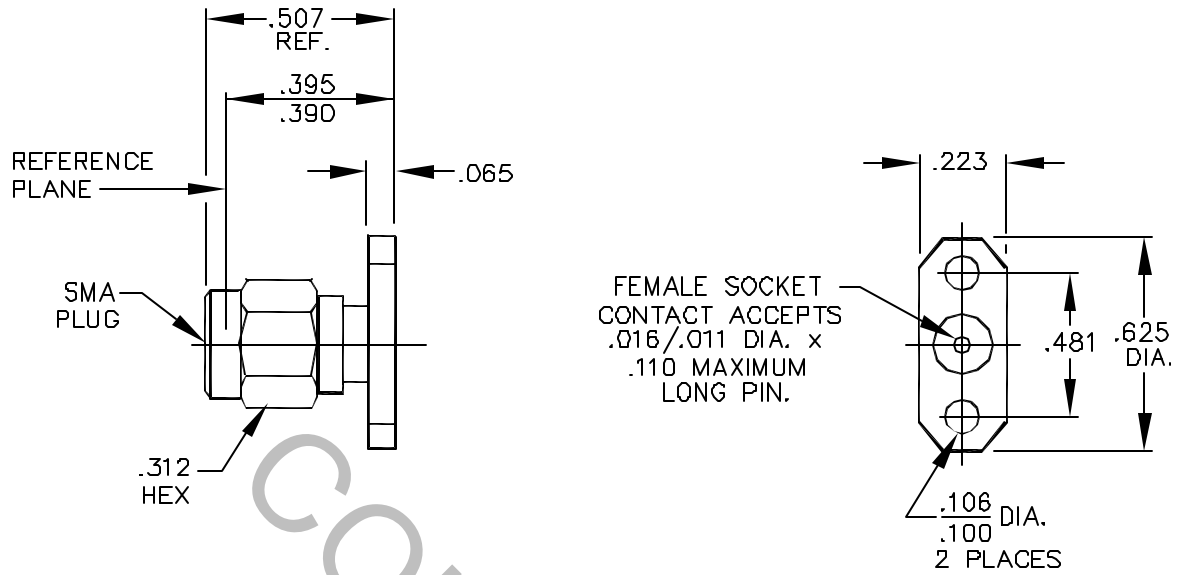


SPECIFICATION CONTROL DRAWING




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 $\sqrt{\text{FGHz}}$
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)	_____	6.0
• 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	03-1702			DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1' 0" X ° X' ± 15'	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD-10}}$.			
				DRAWN	DC	DATE 5/23/03	TITLE SMA, PLUG 2 HOLE FLANGE FIELD REPLACEABLE
				APPROVED	DATE		
				CODE IDENT. 2J899	SHEET 1 OF 2		DWG. NO. 9852-0081-6415

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 1.0 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°)
 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.) (19ØRMS)

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 5D or 6D.

6. FINISH

BODY AND COUPLING NUT _____ GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.25 (.000050
 MIN. THK) OVER NICKEL PER QQ-N-290, CLASS 1, (.000150 MIN.
 THK) OVER COPPER PER MIL-C-14550, (.000010 MIN. THK)
 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