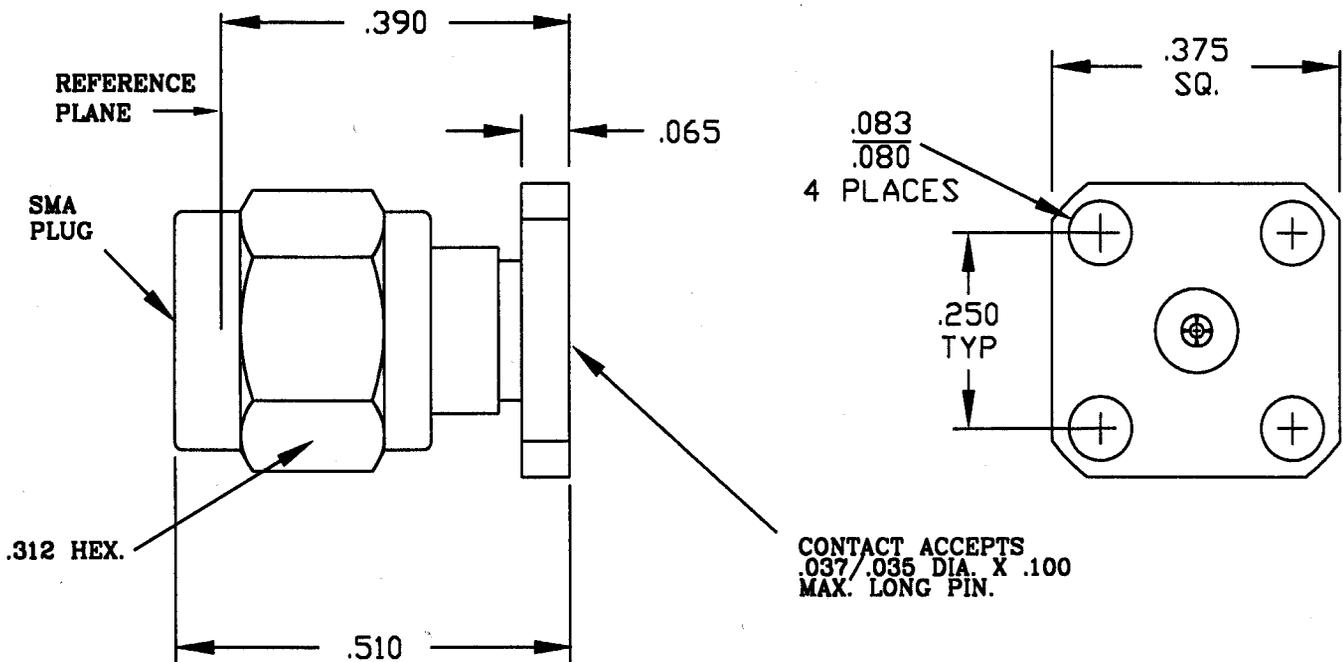


SPECIFICATION CONTROL DRAWING



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)	_____	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	03-1501	4-15-03	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL 3/64	ANGULAR X ° ± 1 0' X ° X' ± 15'	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD-10}}$.			
				DRAWN	DC	DATE 4/15/03	TITLE FIELD REPLACEABLE SMA, PLUG 4 HOLE FLANGE
				APPROVED	DC	DATE 4-15-03	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9854-0081-6237
				2J899			

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 °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.

6. FINISH

BODY _____ GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1 OVER
NICKEL PER QQ-N-290, CLASS 1 OVER WOODS OR WATTS
NICKEL OVER COPPER PER MIL-C-14550.
COUPLING NUT _____ PASSIVATE PER QQ-P-35A, TYPE I.
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 AND RETAINING RING _____ N/A

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INCORPORATED

SHEET 2 OF 2

DWG.
NO.

9854-0081-6237

REV.

AA