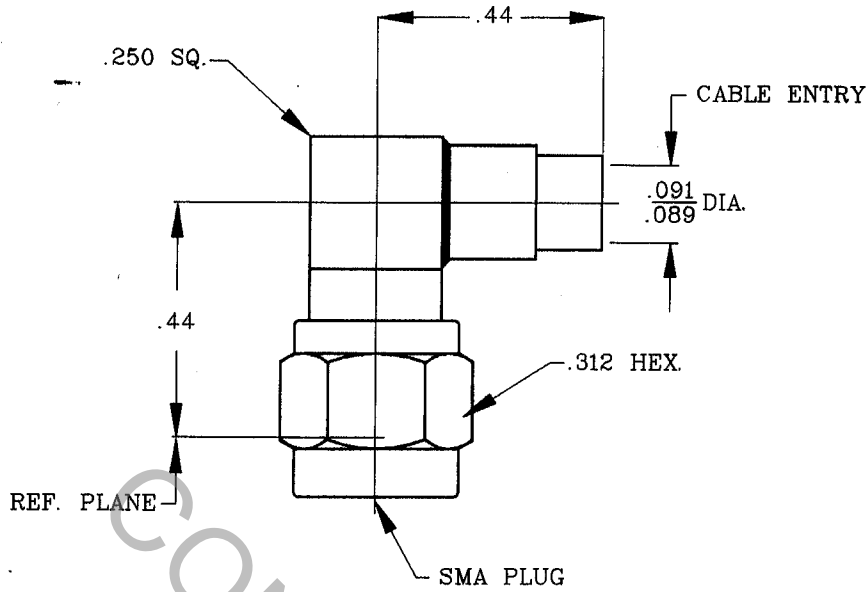


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 310-1 SMA PLUG AND DYNAWAVE SPECIFICATION MD-98.

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.07 + .010 x $\sqrt{\text{FGHz}}$.
INSERTION LOSS (dB MAX.) *	_____	.035 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)	_____	150
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			 GEORGETOWN MA. 01833
				DECIMALS .X+ .030 .XX+ .010 .XXX+ .005	FRACTIONAL ±1/64	ANGULAR X° + 1' 0" X° X ± 15'	
-	806	8/91	T.S.				TITLE SMA, PLUG, RIGHT ANGLE DIRECT SOLDER TO .085 S.R. CABLE
A	1035	11/93	M.B.				
				DRAWN	T.S.	DATE 8/91	DWG. NO. 9801-8521-6257
				APPROVED	DGG	DATE 8/91	
				CODE IDENT.	SHEET 1 of 3		
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 10.0 LBS.
 - MIN RADIAL TORQUE _____ 4.0 IN. OZ.
- CABLE INNER CONDUCTOR ENGAGEMENT FORCES.
- INSERTION (MAX. OUNCES) _____ 40.0
 - WITHDRAWAL (MIN. OUNCES) _____ 1.0
- CONNECTOR DURABILITY (MIN. MATING) _____ 1,000
- 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 582, TYPE 303, COND A.
- CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196,COPPER ALLOY, UNS-C-17800, TEMPER TD04.
- INSULATOR _____ TEFLON PER D-1457.
- GASKET _____ SILICONE RUBBER per ZZ-R-765 CLASS IIB, GRADE 50 or 80.

6. FINISH

- BODY _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1, OVER NICKEL PER QQ-N-290, (.00010 MIN. THK)
- 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, GASKET AND RETAINING RING _____ N/A