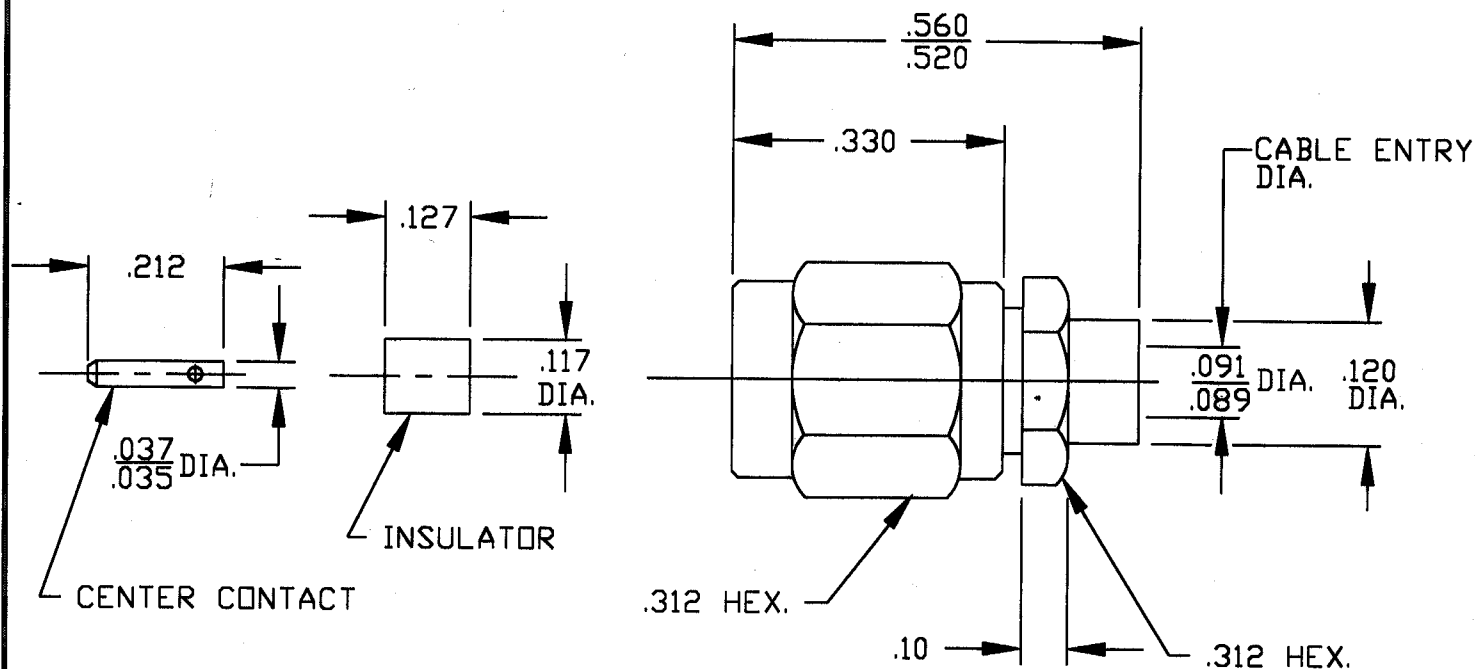


SPECIFICATION CONTROL DRAWING



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.) *	$1.05 + .005 \times \sqrt{\text{FGHz}}$
INSERTION LOSS (dB MAX.) *	$.03 \text{ dB} \times \sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO $+165^{\circ}\text{C}$
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
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
				DECIMALS	FRACTIONAL	ANGULAR	
				$X \pm .005$ $XX \pm .010$ $XXX \pm .005$	$\pm 1/64$	$X^{\circ} \pm 1^{\circ} 0'$ $X^{\circ} X' \pm 15'$	
AA	99-0952	10/8/99	DGG				TITLE SMA, PLUG DIRECT SOLDER TO DYNAFORM .086 SEMI-RIGID CABLE
AB	99-1032	10/29/99	DGG	DRAWN TS	DATE 7/90		
				APPROVED DGG	DATE 7/90		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9800-9086-6244	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ N/A
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX OUNCES) _____ N/A
- WITHDRAWAL (MIN. OUNCES) _____ N/A

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 (-85 °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.) (125 VRMS)

5. MATERIAL

BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A

CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.

INSULATOR _____ TEFLON PER D 1457

GASKET _____ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

BODY _____ GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1
(.000050 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000150 MINIMUM THICKNESS) OVER COPPER PER
MIL-C-14550 (.000010 MINIMUM THICKNESS).

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

dynawave
INCORPORATED

SHEET 2 OF 2

DWG.
NO.

9800-9086-6244

REV.

AB