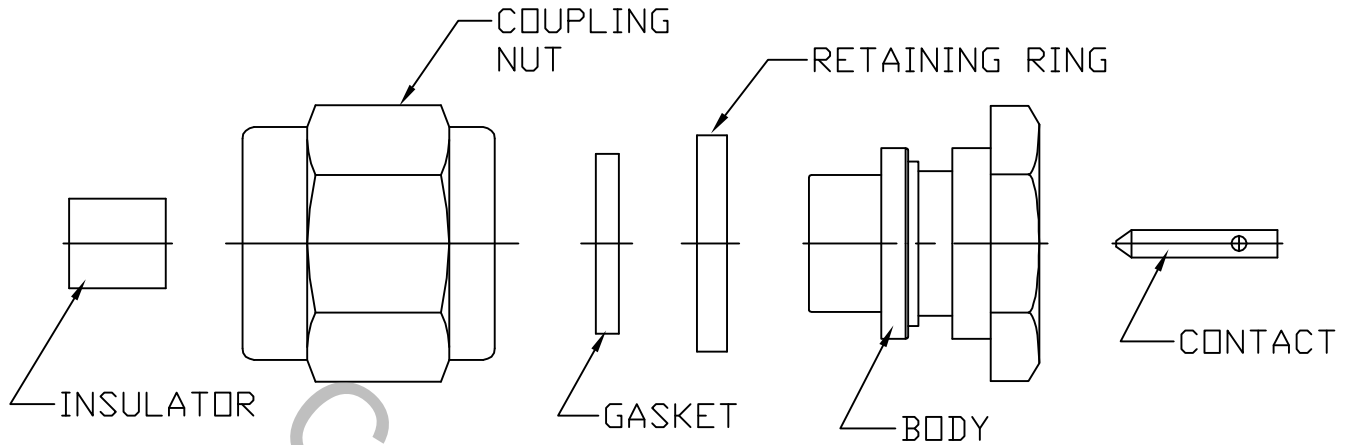


SPECIFICATION CONTROL DRAWING



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 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.03 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	170
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65 ° TO + 165 °
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	
AA	04-1970	8/18/04	DC	DECIMALS	FRACTIONAL	ANGULAR			
				.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	± 1° X' ±			
				DRAWN	DC	DATE	8/18/04	TITLE SMA PLUG, ANTI-TORQUE, DIRECT SOLDER .086 CONFORMABLE CABLE	
				APPROVED	DC	DATE	8/18/04		
				CODE IDENT.			SHEET 1 OF 2	DWG. NO.	9800-9086-6201
				2J899					

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 (-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.) (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