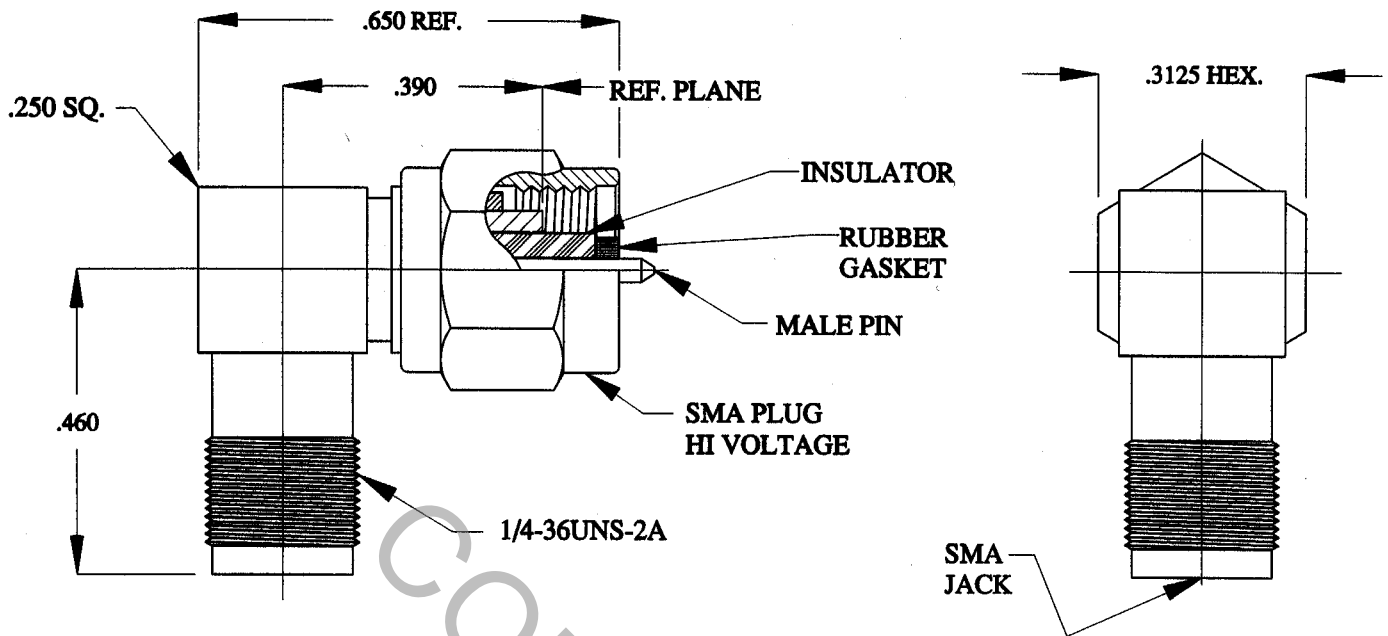


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA JACK per MIL-STD-348 (Fig. 310-2). AND SPECIAL HIGH VOLTAGE SMA PLUG

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 10.0 GHz
VSWR (MAX.) * (FULLY MATED)	_____	1.10 + 1.10 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.05 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 + 150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,000
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	INCORPORATED GEORGETOWN MA. 01833
AA	97-0094	1/97	DGG	DECIMALS FRACTIONAL ANGULAR X ⁺ .030 X ⁺ .010 X ⁺ .005 ±1/64 X° ±1'0" X° X' ±15"	
				DRAWN <i>[Signature]</i> DATE 1/97	TITLE RIGHT ANGLE, ADAPTER, STANDARD, SMA JACK, HIGH VOLTAGE, SMA PLUG
				APPROVED DGG DATE 1/97	
				CODE IDENT. 2J899	DWG. NO. 1101-5899-6250 SHEET 1 OF 2

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE _____ 6.0 LBS.

MIN. RADIAL TORQUE _____ N/A

SMA, JACK, CENTER CONTACT FORCES

● INSERTION (MAX. OUNCES) _____ 48.0

● WITHDRAWAL (MIN. OUNCES) _____ 2.0

SMA DURABILITY (MIN. MATING) _____ 1,000

SMA MATING FORCES (TORQUE) _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65° c TO + 165° 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 AMS-5640, TYPE 303, COND. A

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

INSULATOR _____ TEFLON PER MIL-P-19468 AND L-P-403, TYPE I

GASKET _____ RUBBER SILICONE PER AMS-3304, COLOR RUST, GRADE 70

6. FINISH

BODY AND COUPLING NUT _____ PASSIVATE PER QQ-P-35A, TYPE I

CENTER CONTACT _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2 OVER
(.000100 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1
(.000100 MIN. THK.) OVER COPPER PER MIL-C-14550 (000010 MIN. THK.)
(.000100 MIN. THK.) OVER NICKEL PER QQ-N-290,

INSULATOR AND GASKET _____ N/A