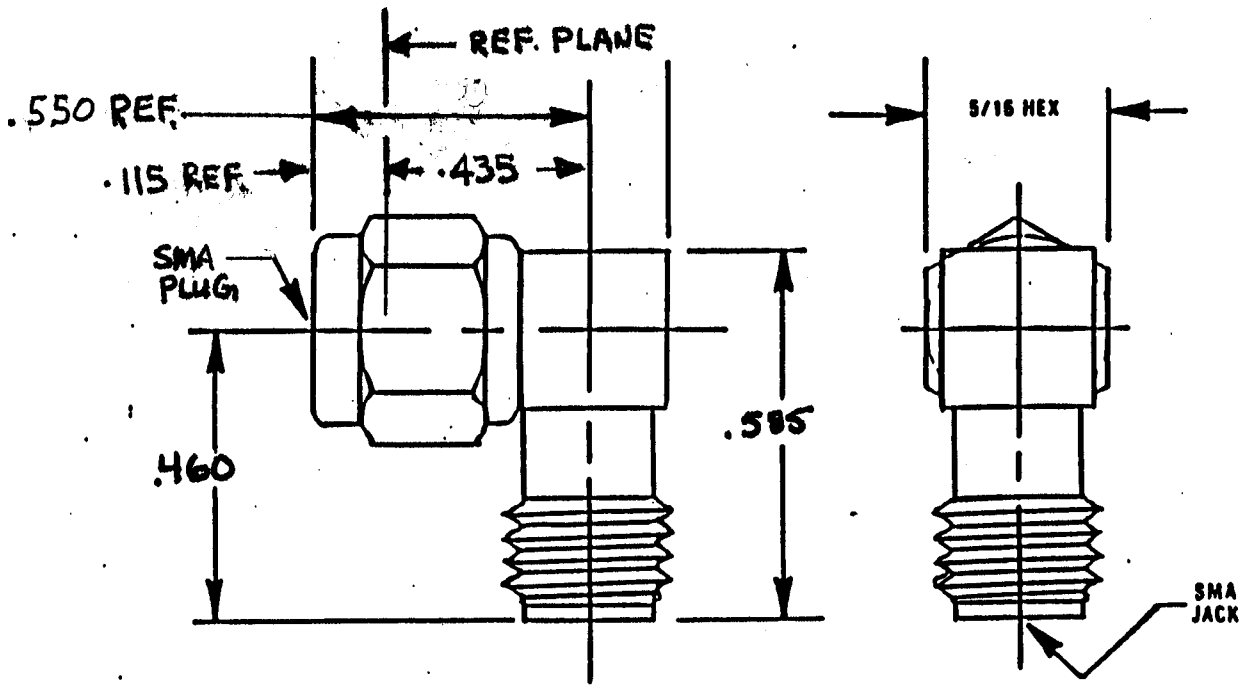


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS per MIL-STD-348, Fig. 310-2 (SMA JACK) and FIG. 310-1 (SMA PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC to 18.0 GHz
VSWR (MAX) * (FULLY MATED)	1.03 + .008 x FGHz
INSERTION LOSS (dB MAX)	.03 dB x \sqrt{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)	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
				DECIMALS	FRACTIONAL	ANGULAR	
-	777	11/90	DDG	.XX ± .030		X° ± 10'	
A	778	12/90	DGG	.XXX ± .005	± 1/64	X° X ± 15'	
				SURFACE ROUGHNESS 63 ✓ MIL-STD-10.			
				DRAWN RF	DATE 11/90	TITLE R/A, SMA PLUG, SMA JACK, ADAPTER	
				APPROVED DGG	DATE 11/90		
				CODE IDENT. 2J899	Sheet 1 of 2	DWG. NO. 1101-9899-6255	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION - CENTER CONTACT

- MIN. AXIAL FORCE (BOTH) _____ 6.0 LBS.
- MINIMUM RADIAL TORQUE _____ N/A

DYNAMATE ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) _____ 48.0
- WITHDRAWAL (MIN. OUNCES) _____ 4.0

SMA and DYNAMATE DURABILITY (MIN. MATING) _____ 1,000

SMA ENGAGEMENT FORCES (TORQUE) _____ 7 - 10 INCH 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, CPLG NUT, WASHER, and JAM NUT _____ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
- CENTER CONTACT _____ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173 COND. HT
- INSULATOR _____ TEFLON PER MIL-P-19466, AND L-P-403, TYPE I

6. FINISH

BODY, CPLG NUT, WASHER, and JAM NUT _____ PASSIVATE per QQ-P-35A, TYPE I.

CENTER CONTACT _____ GOLD per MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-280, CLASS 1 (.000100 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickness).

INSULATOR _____ N/A

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SHEET 2 of 2

DWG.
NO.

1101-9899-6255

REV.

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