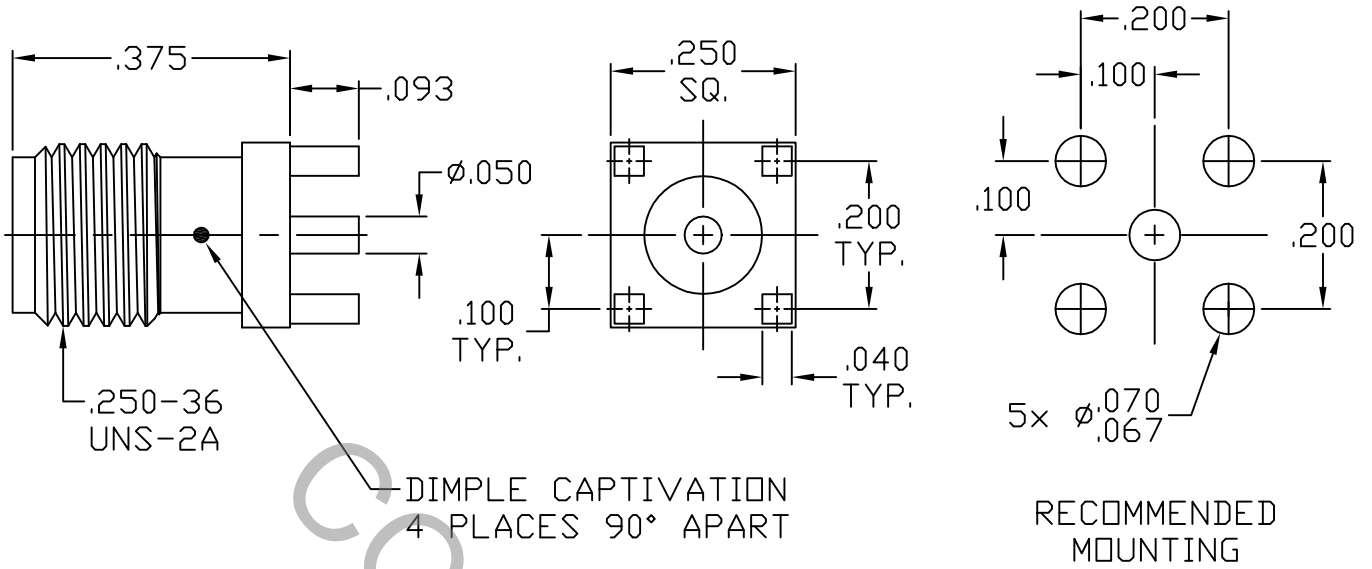


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 310.2) SMA JACK

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.07 + .010 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	335
RF LEAKAGE (MIN. dB DOWN)	_____	N/A
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)	_____	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	05-1463	4/12/05	DC	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	±/64	X° ± 1° X' X" ± 15'	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.			
				DRAWN DC	DATE 4/12/05	TITLE SMA JACK STRAIGHT 4 POST, P.C. MOUNT STRAIGHT TERMINAL	
				APPROVED DC	DATE 4/12/05		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO.	9920-0031-6401

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ 4.0 IN.OZ.

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) _____ 32.0
 - WITHDRAWAL (MIN. OUNCES) _____ 2.0
- CONNECTOR DURABILITY (MIN. MATING) _____ 500

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.) (250 VRMS)

5. MATERIAL

- CONNECTOR BODY _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
- CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
- INSULATOR _____ TEFLON PER D 4894

6. FINISH

- CONNECTOR BODY _____ GOLD PER ASTM B488, TYPE I, CODE C, CLASS 1.25
OVER WOODS OR WATTS NICKEL, OVER COPPER PER MIL-C-14550
- CENTER CONTACT _____ GOLD PER ASTM B488, TYPE I, CODE C, CLASS 2.5
(.000010 MIN.) OVER NICKEL PER QQ-N-290
(.000050 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)
- INSULATOR _____ N/A