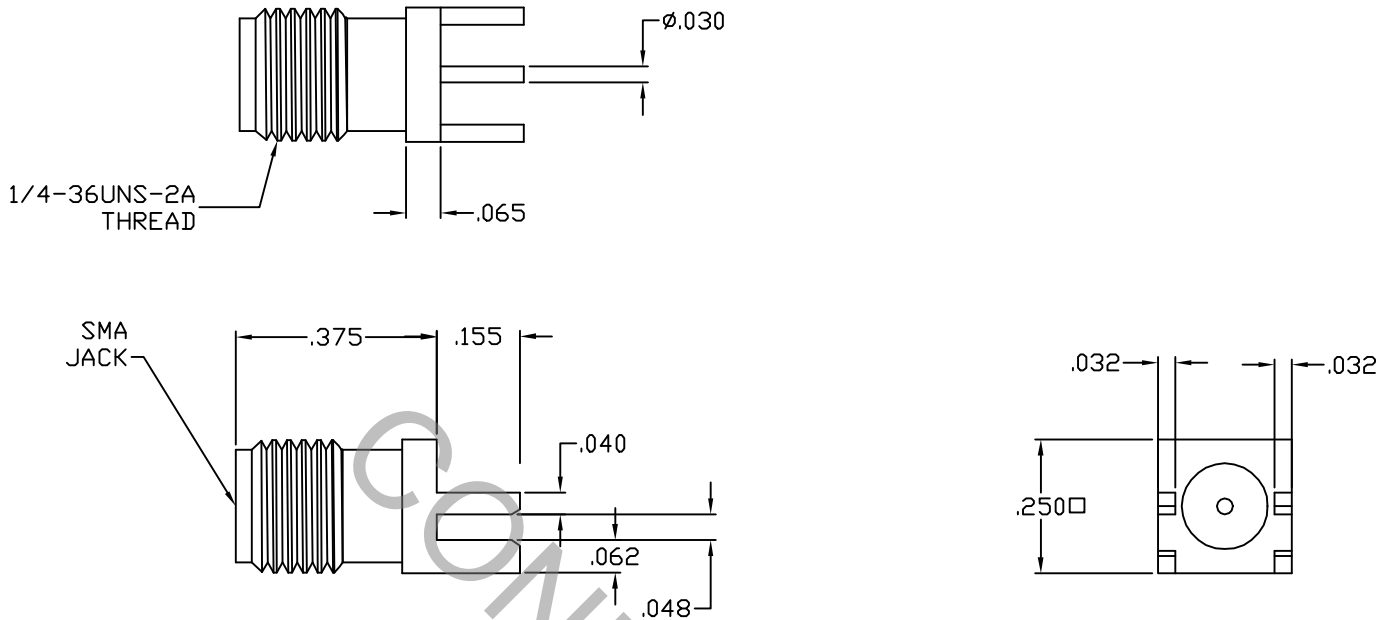


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 310.2) SMA, JACK AND DYNAWAVE SPECIFICATION MD-99.

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	N/A
INSERTION LOSS (dB MAX.) *	_____	.05 dB x \sqrt{FGHz} .
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX VRMS)	_____	335
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)	_____	5,000
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	05-1057	1/13/05	DC	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	±/64	X° ± 1° X' X" ± 15'	TITLE SMA, JACK EDGE LAUNCH STRAIGHT, P.C. MOUNT PIN TERMINAL
				SURFACE ROUGHNESS 63√MIL-STD 10.			
				DRAWN SS	DATE	1/13/05	DWG. NO. 9920-0531-2402
				APPROVED DC	DATE	1/13/05	
				CODE IDENT. 2J899	SHEET 1 OF 2		

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER PIN

MIN. AXIAL FORCE _____ 4.5 LBS.

MIN. RADIAL TORQUE _____ 4.0 IN. OZ.

CENTER CONTACT MATING FORCE

● INSERTION (MAX. OUNCES) _____ 48.0

● WITHDRAWAL (MIN. OUNCES) _____ 2.0

CONNECTOR DURABILITY _____ 500

MAX. CONNECTOR ENGAGEMENT FORCE _____ 2.0 INCH 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.) (250 VRMS)

5. MATERIAL

CONNECTOR BODY AND SLEEVE _____ BRASS PER ASTM B16, TEMPER H02 ALLOY C36000

CONTACT _____ BERYLLIUM COPPER PER ASTM B196, COPPER ALLOY NO. UNS C17300.

INSULATOR _____ TEFLON PER ASTM D 4894-91.

6. FINISH

CONNECTOR BODY AND 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 _____ N/A