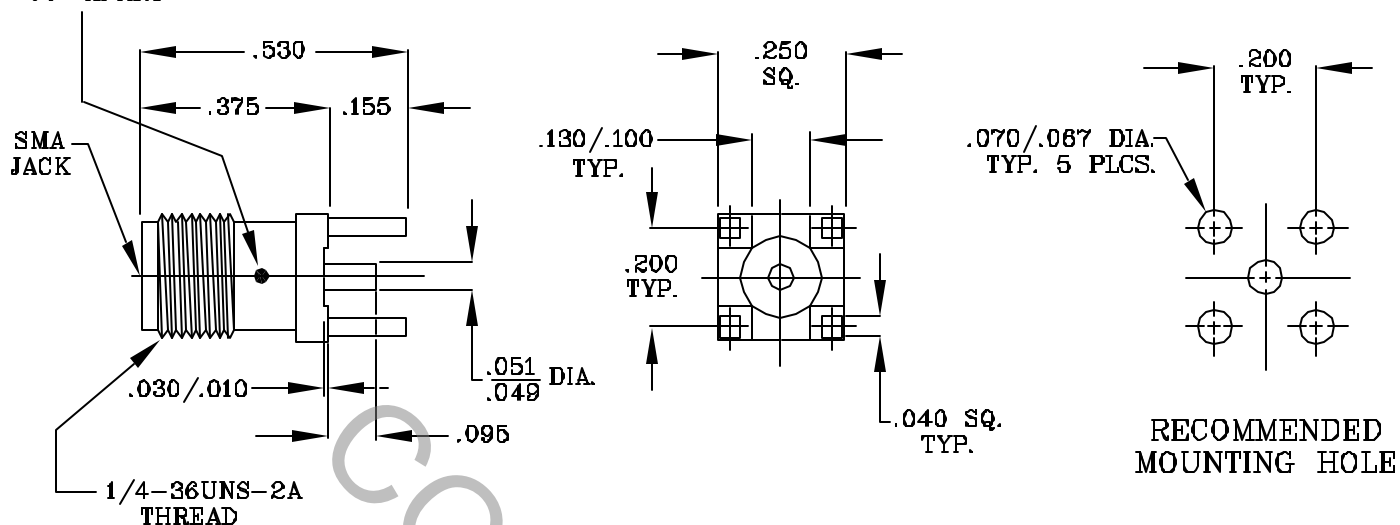


# SPECIFICATION CONTROL DRAWING

## DIMPLE CAPTIVATION

4 PLACES  
90° APART



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 4.0 GHz.
VSWR (MAX) *	_____	1.05 + .005 x fGHz
INSERTION LOSS (dB MAX) *	_____	.03 dB x 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)	_____	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			INCORPORATED HAVERHILL, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	03-1672			.X ± .030 .XX ± .010 .XXX ± .006	1/84	X° ± 1' 0" X' ± 15"	TITLE SMA, JACK STRAIGHT 4 POST, P.C. MOUNT STRAIGHT TERMINAL
				SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN	DC	DATE 5/19/03	DWG. NO. 9920-0031-2351
				APPROVED	DATE		
				CODE IDENT.	SHEET 1 OF 2		
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 6.0 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ 4 IN.OZ.

### CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ 48.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ 200

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -50 °c TO + 125 °c )  
SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 213, COND. I (50 G's)  
VIBRATION \_\_\_\_\_ MIL-STD-202, METHOD 204, COND. D (10 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 106, COND. F ( 16,000 FT. ) ( 250 VRMS )

## 5. MATERIAL

CONNECTOR BODY \_\_\_\_\_ BRASS PER ASTM B36, TEMPER H02, ALLOY C36000  
CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 193, COPPER ALLOY UNS C17300.  
INSULATOR \_\_\_\_\_ TEFLON PER D 4894

## 6. FINISH

CONNECTOR BODY \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1  
(.000010 MIN / .000015 MAX), OVER COPPER PER MIL-C-14550  
CLASS 4, (.000130 MIN / .000150 MAX)  
CENTER CONTACT \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2  
(.000050 MIN.) OVER NICKEL PER QQ-N-290, CLASS 1  
(.000050 MIN.)  
INSULATOR \_\_\_\_\_ N/A