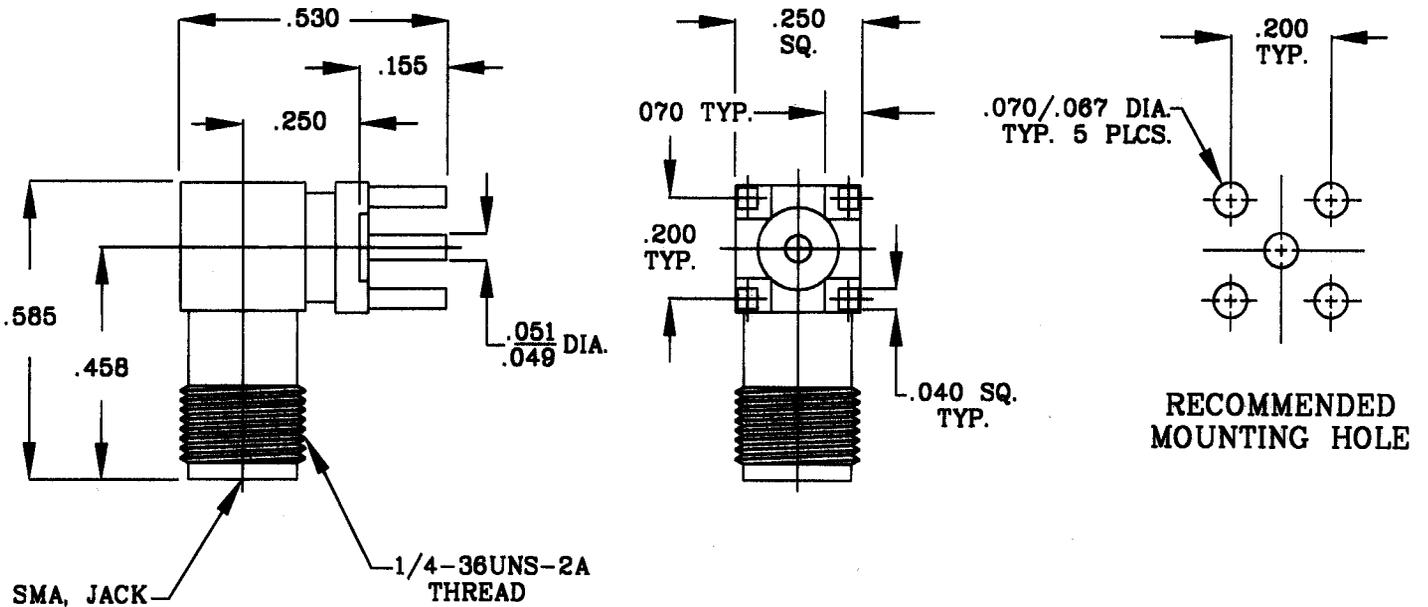


# SPECIFICATION CONTROL DRAWING



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 12.5 GHz.
VSWR (MAX) *	_____	1.45
INSERTION LOSS (dB MAX)	_____	.10
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)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	4.0
• 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	02-0231	3/28/01	<i>[Signature]</i>	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005 FRACTIONAL ± 1/64 ANGULAR X° ± 15' X' ± 15'	
				SURFACE ROUGHNESS 63 √ MIL-STD 10. DRAWN <i>KLT</i> DATE <i>3/28/02</i>	TITLE SMA, JACK RIGHT ANGLE 4 POST, P.C. MOUNT STRAIGHT TERMINAL
				APP. <i>[Signature]</i> DATE <i>3/28/02</i>	
				CODE IDENT. 2J899	DWG. NO. 9921-0031-2100
				SHEET 1 OF 2	

# 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) \_\_\_\_\_ 48.0
- 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. ) ( 190 VRMS )

## 5. MATERIAL

CONNECTOR BODY \_\_\_\_\_ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.  
CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.  
INSULATOR \_\_\_\_\_ TEFLON PER D 4894

## 6. FINISH

CONNECTOR BODY \_\_\_\_\_ "TRI-M-M3" ALLOY, 55%-60% COPPER, 25%-28% TIN  
AND 14%-18% ZINC. .0001 TO .0002 THICK.  
CENTER CONTACT \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2  
OVER COPPER PER MIL-C-14550 (.000010 MIN.)  
INSULATOR \_\_\_\_\_ N/A

 **dynawave**  
INCORPORATED

SHEET 2 OF 2

DWG.  
NO.

9921-0031-2100

REV.

AA