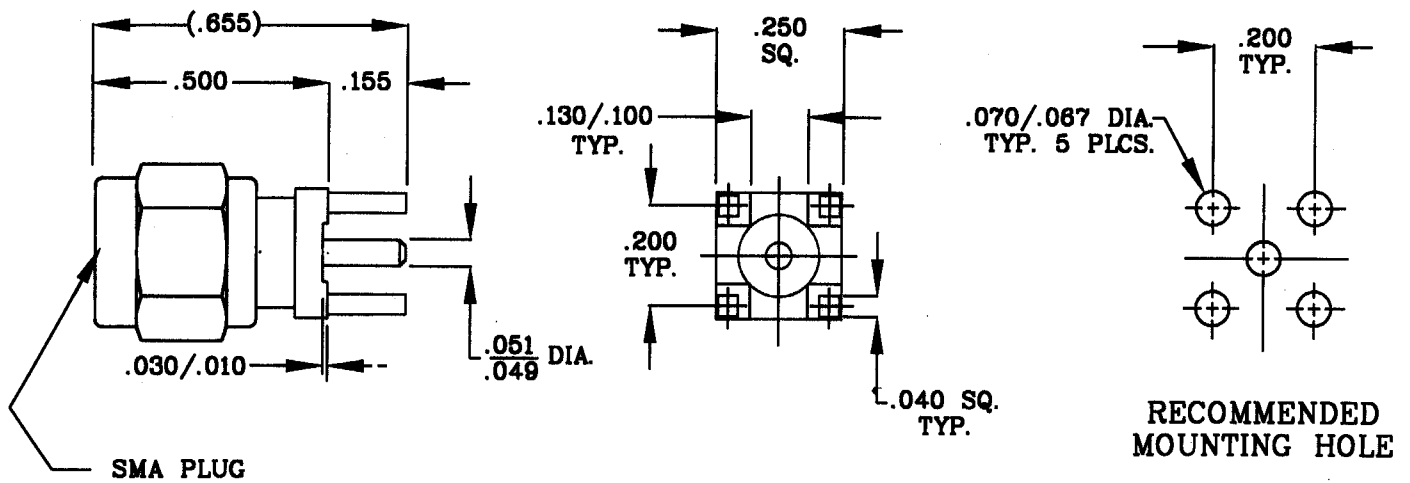


# SPECIFICATION CONTROL DRAWING



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) *	.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			 Haverhill, MA 01836
AA	03-1986	8-7-03	AS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL 3/64	ANGULAR X° ± 10' X' ± 15"	
				SURFACE ROUGHNESS 63 ✓ MIL-STD 10.			
				DRAWN BN DATE 8/6/03			DWG. NO. 9820-0031-2724
				APPROVED AS-C DATE 8-7-03			
				CODE IDENT. 2J899	SHEET 1 OF 2		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 6.0 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ N/A
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A

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 B36, TEMPER H02, ALLOY C36000  
COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM A581, TYPE 303 COND. A  
CENTER CONTACT AND RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.  
INSULATOR \_\_\_\_\_ TEFLON PER D 4894  
GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-785 CLASS II, GRADE 50 OR 60

## 6. FINISH

CONNECTOR BODY \_\_\_\_\_ NICKEL PER QQ-N-290, CLASS 1 OVER WOODS OR  
WATTS NICKEL OVER COPPER PER MIL-C-14550.  
COUPLING NUT \_\_\_\_\_ PASSIVATE PER QQ-P-35D, TYPE VI  
CENTER CONTACT \_\_\_\_\_ GOLD PER ATSM B 196 , TYPE II, GRADE C, CLASS 2  
(.000010 MIN.) OVER NICKEL PER QQ-N-290, CLASS 1  
(.000010 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)  
INSULATOR GASKET AND RETAINING RING \_\_\_\_\_ N/A

**dynawave**  
INCORPORATED

SHEET 2 OF 2

DWG.  
NO.

9920-0031-2724

REV.

AA