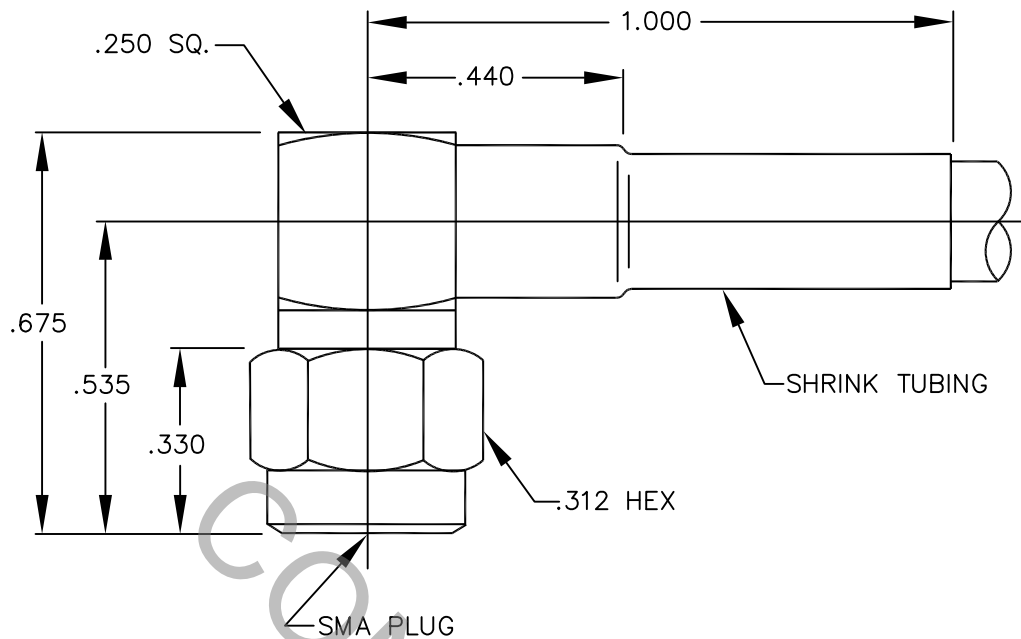


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA PLUG per MIL-STD-348 (Fig. 310-1). AND DYNAWAVE SPECIFICATION MD-98.

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.04 + .008 x FGHz.
INSERTION LOSS (dB MAX.) *	_____	.045 dB x FGHz.
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)	_____	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\*TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 INCORPORATED HAVERHILL, MA. 01835
—	965	6/93	M.B.	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±/64	ANGULAR X ° ± 1 0' X ° X' ± 15'	
				SURFACE ROUGHNESS 63 √MIL-STD-10.			TITLE SMA, PLUG RIGHT ANGLE DIRECT SOLDER (RG 174/U, 188, 316)
				DRAWN	M.B.	DATE 6/93	
				APPROVED	GL	DATE 6/93	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9801-1621-6440
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 4.0 LBS.
- MIN RADIAL TORQUE \_\_\_\_\_ N/A

### CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ 32.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 1.0

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ 1,000

RECOMMENDED MATING TORQUE \_\_\_\_\_ 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -65 °c TO + 200° )

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. ) ( 190RMS )

## 5. MATERIAL

BODY AND COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND A.

CONTACT AND RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196,COPPER ALLOY,  
UNS-C-17800, TEMPER TD04.

INSULATOR \_\_\_\_\_ TEFLON PER D 4894-91.

GASKET \_\_\_\_\_ SILICONE RUBBER per ZZ-R-765  
CLASS IIB, GRADE 50 or 60.

HEAT SHRINK TUBING \_\_\_\_\_ RNF-100, TYPE I, PER MIL-I-23053/5, CLASS 1.

## 6. FINISH

BODY AND COUPLING NUT \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25  
(.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1  
(.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS),  
(.000010 MIN. THK.).

CONTACT \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5  
(.00010 MIN. THK.) OVER NICKEL PER QQ-N-290  
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550  
(.000010 MIN. THK.).

INSULATOR, GASKET, RETAINING RING AND  
HEAT SHRINK TUBING \_\_\_\_\_ N/A