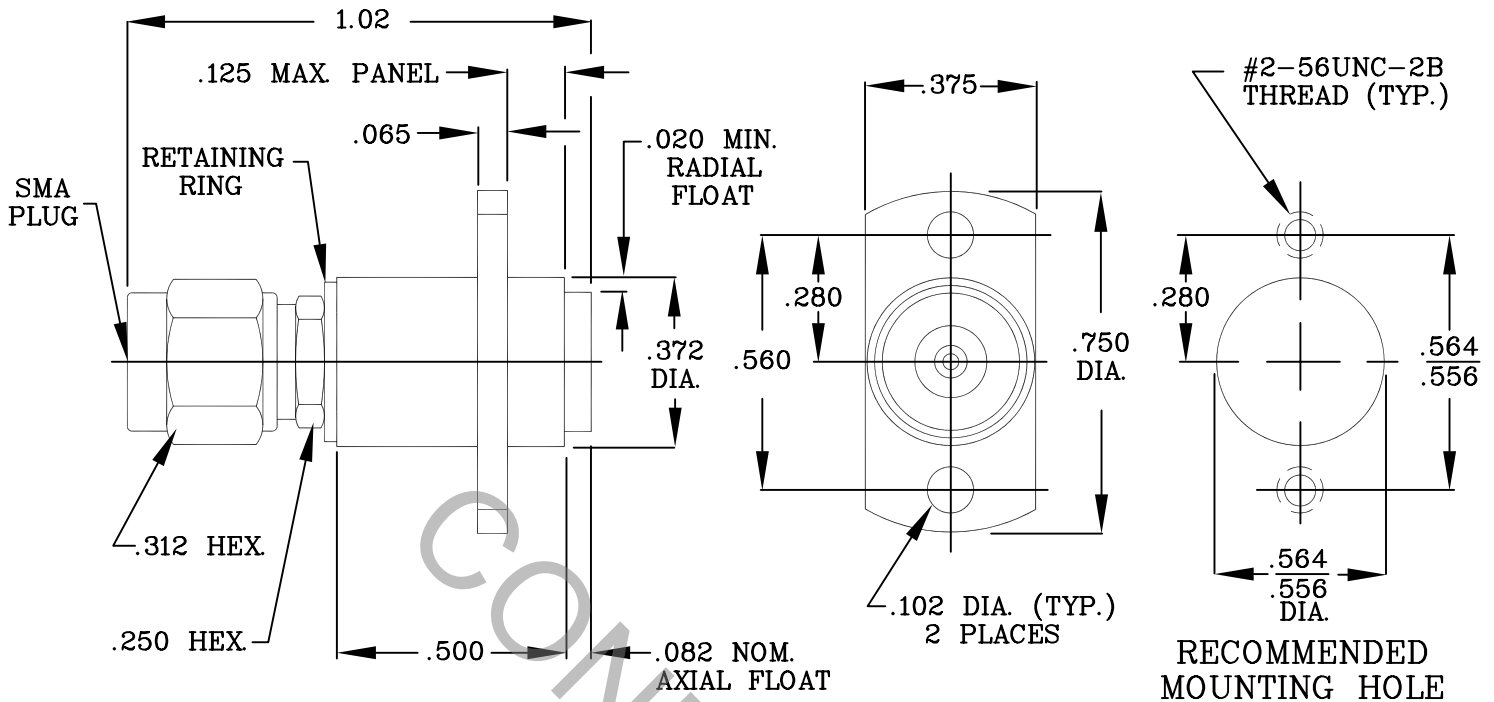


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 310-1 (SMA, PLUG) AND DYNAWAVE DRAWING MD-29 (DYNAMATE, JACK).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 20.0 GHz.
VSWR (MAX.) * (FULLY MATED)	1.05 + .007 x FGHz.
INSERTION LOSS (dB MAX.)	.035 dB x $\sqrt{\text{FGHz}}$ .
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
-	776	11/90	T.S.	.X ± .030 .XX ± .010 .XXX ± .005	±/64	X° ± 1' 0" X° X' ± 15"	TITLE DYNAMATE, JACK SMA, PLUG, FLOATING FLANGE MOUNT ADAPTER
A	779	11/90	T.S.	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$ .			
B	868	6/92	CT	DRAWN T.S.	DATE 11/90		DWG. NO. 1162-2998-6250
				APPROVED T.S.	DATE 11/90		
				CODE IDENT. 2J899	SHEET 1 of 2		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

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

### DYNAMATE ENGAGEMENT FORCES

- INSERTION (MAX OUNCES) \_\_\_\_\_ 48.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 4.0

SMA AND DYNAMATE DURABILITY (MIN. MATING) \_\_\_\_\_ 1,000

SMA ENGAGEMENT FORCES (TORQUE) \_\_\_\_\_ 7 - 10 INCH LBS.

## 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

\_\_\_\_\_ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A  
FERRULE, COMPRESSION SPRING AND COUPLING NUT

\_\_\_\_\_ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173 COND. HT  
\_\_\_\_\_ TEFLON PER D-1457

CENTER CONTACT HOOD \_\_\_\_\_ BRASS PER QQ-B-626, 1/2 HARD, ALLOY 360

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

## 6. FINISH

CONNECTOR BODY, FLANGE BODY, COIL SPRINGS, \_\_\_\_\_ PASSIVATE PER QQ-P-35A, TYPE I.

FERRULE, COMPRESSION SPRING AND COUPLING NUT

\_\_\_\_\_ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2,  
OVER NICKEL PER  
QQ-N-290, CLASS 1 (.000100 MINIMUM THICKNESS) OVER  
COPPER PER MIL-C-14550 (.000010 MINIMUM THICKNESS).

RETAINING RING \_\_\_\_\_ NICKEL PER QQ-N-29, CLASS 1 (.00020 MIN. THK.)  
OVER COPPER PER MIL-C-14550 (.000010 MIN. THK.)

INSULATOR AND GASKE \_\_\_\_\_ N/A