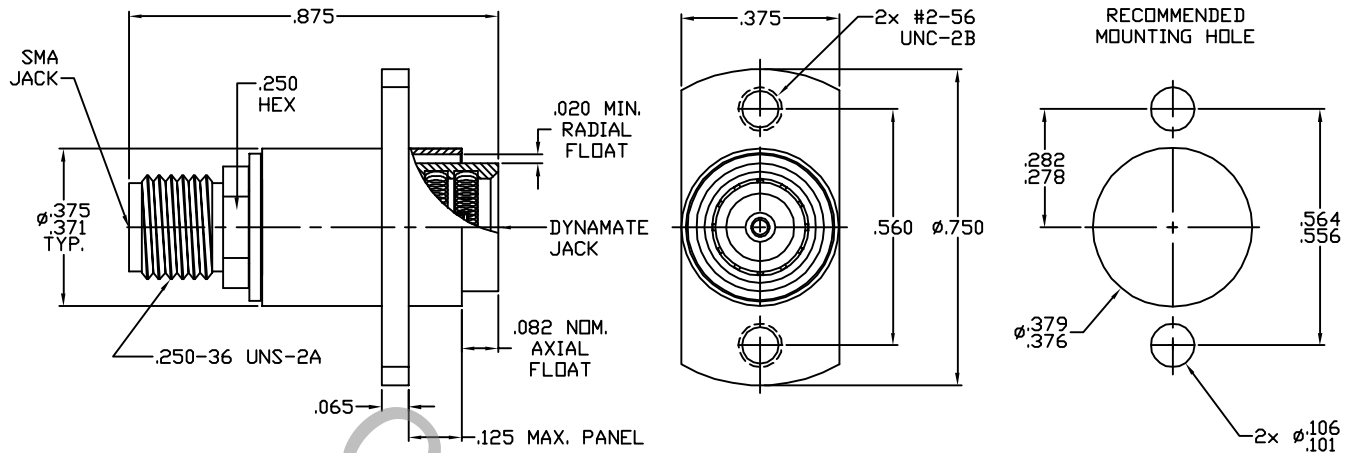


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348  
Fig. 310.2 (SMA JACK) AND DYNAWAVE MD-29 (BMA 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)	_____	5,000
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			INCORPORATED  HAVERHILL, MA. 01835
AA	05-1069	1/17/05	DC	DECIMALS	FRACTIONAL	ANGULAR	
AB	07-1497	5/8/07	DC	.X <sup>+</sup> .030 .XX <sup>+</sup> .010 .XXX <sup>+</sup> .005	± 1/64	X° ± 1° 0' X° X' ± 15'	
				DRAWN	DC	DATE	
				APPROVED	DC	DATE	1/17/05
				CODE IDENT.		SHEET	1 OF 2
				2J899		DWG. NO.	1162-2999-6251

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

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

### CENTER CONTACT AXIAL FORCES

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

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500

RECOMMENDED MATING TORQUE \_\_\_\_\_ 7-10 IN-LB (FEMALE SMA)

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -65° c TO + 165° 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, FLANGE BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

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

INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710

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

RETAINING RING \_\_\_\_\_ SPRING STEEL PER SAE 1060-1090

## 6. FINISH

CONNECTOR BODY & FLANGE BODY \_\_\_\_\_ PASSIVATE PER AMS-QQ-P-35A, TYPE 2

CENTER CONTACT ASSEMBLY \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1  
(.000150 MIN. THK.) OVER COPPER PER MIL-C-14550  
(.000010 MIN. THK.)

RETAINING RING \_\_\_\_\_ CORROSION RETARDANT PHOSPHATE COATING  
PER MIL-P-16232D, TYPE Z

INSULATOR \_\_\_\_\_ N/A