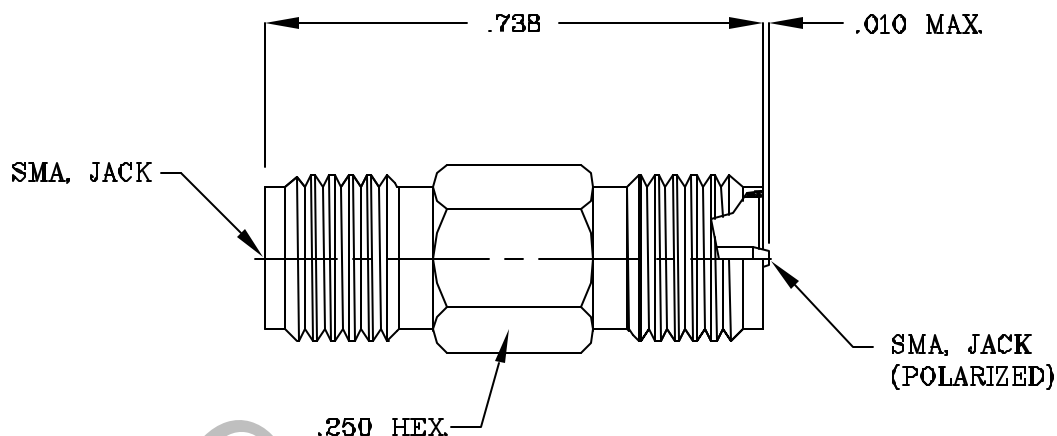


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348, (Fig. 310-2)/SMA SERIES AND DYNAWAVE MD-99.

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX) *	1.05 + .004 x FGHz.
INSERTION LOSS (dB MAX)	.015 dB x $\sqrt{\text{FGHz}}$ .
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)	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
AA	05-1168	2/10/05	TS	DECIMALS $.X \pm .030$ $.XX \pm .010$ $.XXX \pm .005$	FRACTIONAL $\pm 1/84$	ANGULAR $X^{\circ} \pm 15'$ $X^{\circ} X' \pm 15'$	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$ .			
				DRAWN TS	DATE 2/10/05		DWG. NO. 1100-5999-6220
				APPROVED DC	DATE 2/10/05		
				CODE IDENT. 2J899	SHEET 1 OF 2		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 6.0 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ 4.5 IN.OZ.

### CENTER CONTACT AXIAL FORCES

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

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX IN. LBS.) \_\_\_\_\_ 2.0

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

RECOMMENDED MATING TORQUE (SMA, JACK) \_\_\_\_\_ 7 - 10 IN. LBS.

## 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 108, 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. ) ( 250 VRMS )

## 5. MATERIAL

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

CONTACT AND RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.

INSULATOR \_\_\_\_\_ TEFLON PER MIL-P-19463 AND L-P-403, TYPE 1.

GASKET \_\_\_\_\_ SILICON RUBBER PER ZZ-R-785, CLASS IIB, GRADE 50 OR 60.

## 6. FINISH

BODY AND COUPLING NUT \_\_\_\_\_ PASSIVATE PER QQ-P-35A, TYPE 1.

CONTACT \_\_\_\_\_ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5  
(.000100 MIN.) OVER NICKEL PER QQ-N-290 OVER  
COPPER PER MIL-C-14660 (.000010 MIN. THK)

GASKET \_\_\_\_\_ N/A

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