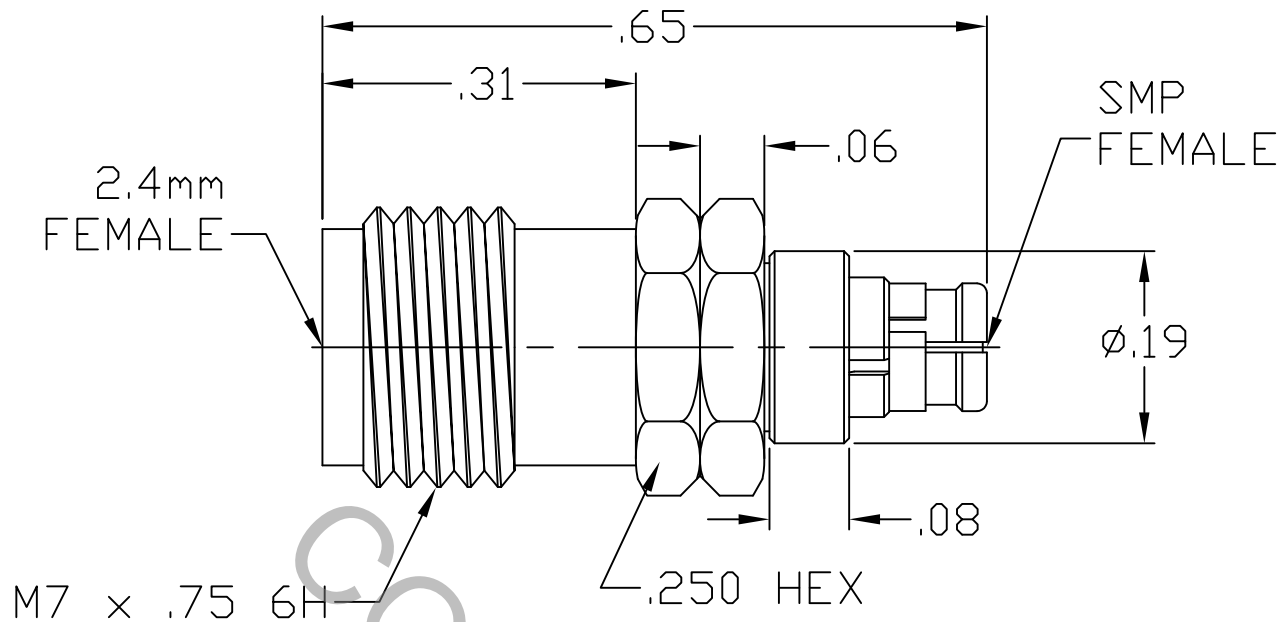


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-13 (2.4mm, JACK) AND MIL-STD-348 Fig. 326.1 (SMP FEMALE).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz.
VSWR (MAX.) *	1.06 + .007 x FGHz.
INSERTION LOSS (dB MAX.)	.050 dB x √FGHz.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	167
RF LEAKAGE (MIN. dB DOWN)	-90 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +125 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	4.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 Haverhill, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	05-1994	10/3/05	DC	.X ± .030		X ° ± 1 °	TITLE 2.4mm FEMALE TO SMP FEMALE ADAPTER
AB	10-1133	2/8/10	TS	.XX ± .010	± 1/64	X ° X ± 15'	
				SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN	DC	DATE 10/3/05	
				APPROVED	DC	DATE 10/3/05	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 1100-1320-5450
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.

MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### 2.4mm, JACK MATING FORCES - CENTER CONTACT

● INSERTION (MAX. OUNCES) \_\_\_\_\_ 32.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 1.0

### SMP, FEMALE ENGAGEMENT FORCES

● ENGAGE (MAX. LBS.) \_\_\_\_\_ FULL DETENT 15.0 LBS.

● DISENGAGE (MIN. LBS.) \_\_\_\_\_ FULL DETENT 5.0 LBS.

### CONNECTOR DURABILITY (MIN. MATING)

● 2.9mm, JACK \_\_\_\_\_ 1,000

● SMP, FEMALE \_\_\_\_\_ 100

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -65°C TO +125°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. ) ( 125 VRMS )

## 5. MATERIAL

BODY 2.4mm \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A

BODY SMP, CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.

INSULATOR \_\_\_\_\_ TEFLON PER D 1710-02, TYPE 1, GRADE 1, CLASS B.

2.4mm BEAD \_\_\_\_\_ PLASTIC COMPOSIT

## 6. FINISH

BODY 2.4mm \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2.

BODY SMP \_\_\_\_\_ GOLD per ATSM-B-488, TYPE I, CODE C, CLASS 1.25 (.000100 Min. Thk.) OVER NICKEL per QQ-N-290 (.000100 Min. Thk.) OVER COPPER per MIL-C-14550 (.000040 Min. Thk.).

CENTER CONTACT \_\_\_\_\_ GOLD per ATSM-B-488, TYPE I, CODE C, CLASS 2.5 (.000100 Min. Thk.) OVER NICKEL per QQ-N-290 (.000050 Min. Thk.) OVER COPPER per MIL-C-14550 (.000010 Min. Thk.).

INSULATOR & BEAD \_\_\_\_\_ N/A