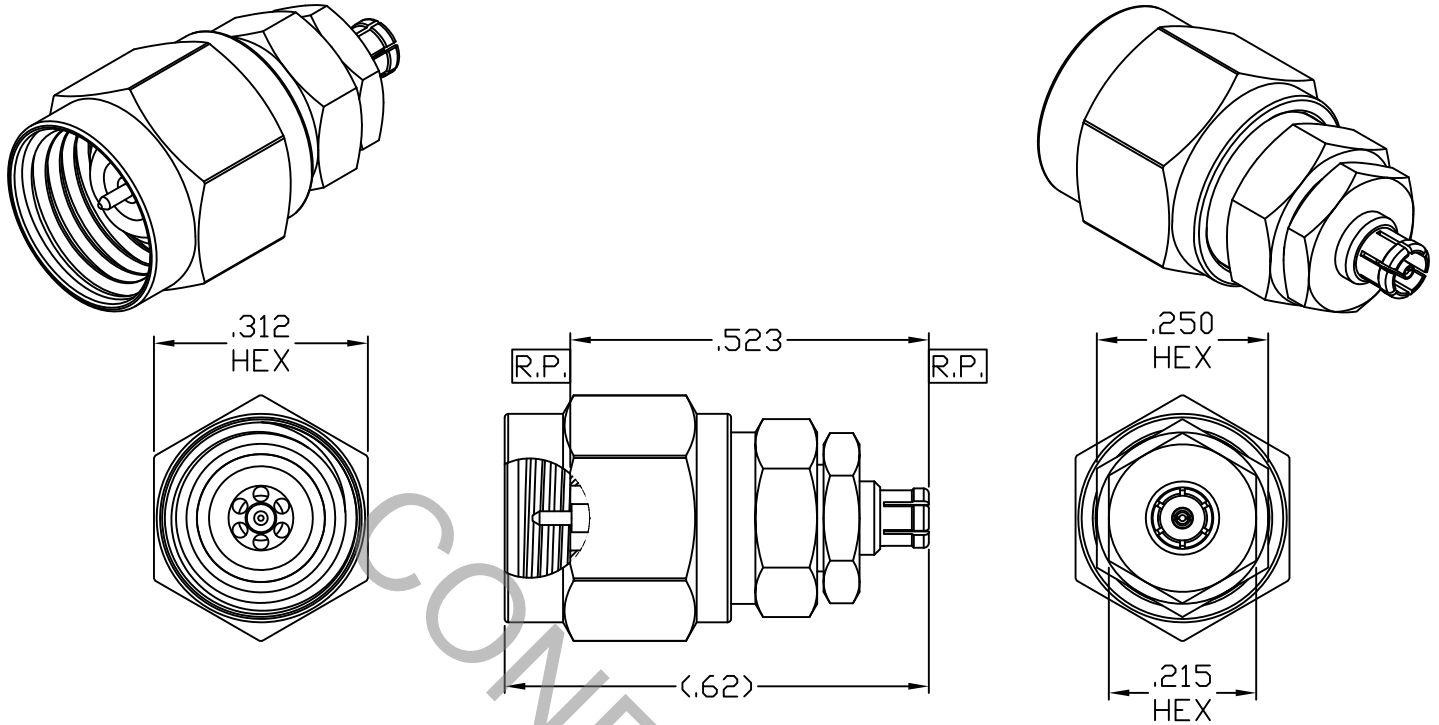


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per DYNAWAVE SPECIFICATION MD-12-1 (2.4mm PLUG) AND Per MIL-STD-348 Fig. 328.1 (SMPM FEMALE).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 40.0 GHz
VSWR (MAX) *	_____	1.06 + .006 x FGHz
INSERTION LOSS (dB MAX) *	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	167
RF LEAKAGE (MIN. dB DOWN)	_____	N/A
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)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835	
AA	12-1443	5/31/12	DC	DECIMALS	FRACTIONAL	ANGULAR		
				.X ± .030		X ° ± 1° 0'	TITLE 2.4mm MALE TO SMPM FEMALE ADAPTER	
				.XX ± .010	± 1/64	X ° X' ± 15'		
				.XXX ± .005				
				DRAWN	DC	DATE	5/31/12	DWG. NO. 1100-1230-5450
				APPROVED	DC	DATE	5/31/12	
				CODE IDENT.				
				2J899		SHEET 1 OF 2		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

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

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

### SMPM AXIAL FORCES

● INSERTION (MAX. POUNDS) \_\_\_\_\_ 6.5 FULL DETENT, 1.5 SMOOTH BORE

● WITHDRAWAL (MIN. POUNDS) \_\_\_\_\_ 3.0 FULL DETENT, 0.25 SMOOTH BORE

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) \_\_\_\_\_ 2.4mm, 2.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ SMPM, 500 SMOOTH BORE, 100 FULL DETENT

RECOMMENDED MATING TORQUE \_\_\_\_\_ 2.4mm, 7 - 10 IN. LBS., SMPM N/A

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 107, 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

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

SMPM BODY, CONTACTS & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

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

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.

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

## 6. FINISH

2.4mm BODY & COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

SMPM BODY & CONTACTS \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)

INSULATOR, BEAD, GASKET & RETAINING RING \_\_\_\_\_ N/A