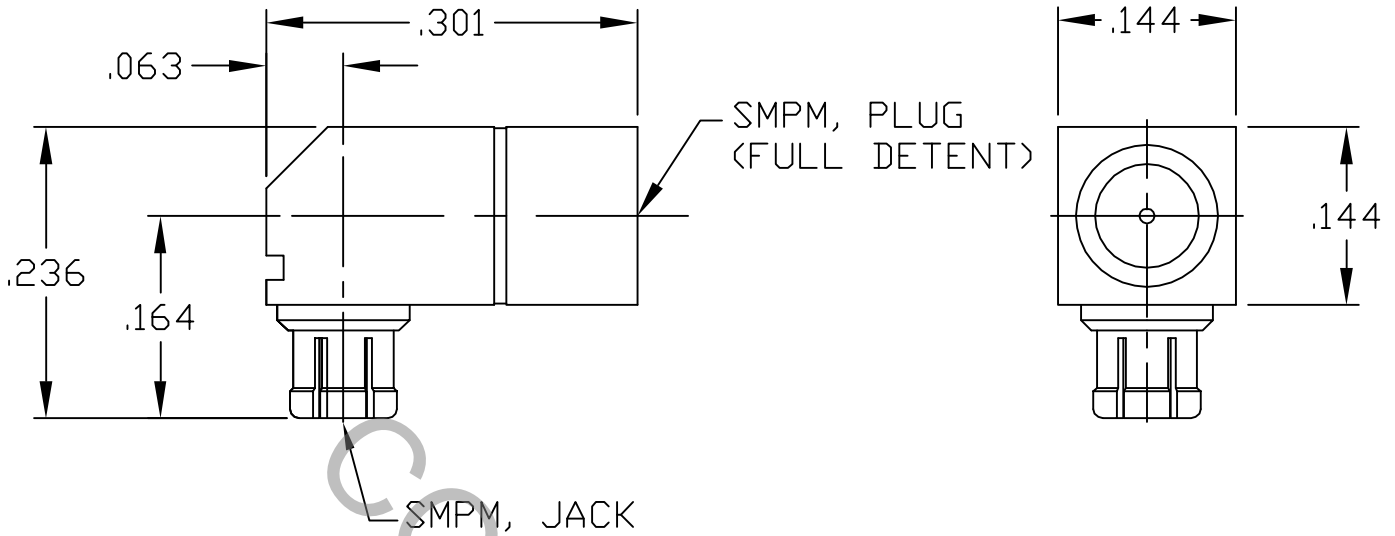


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 328.1 (SMPM, JACK) AND Fig. 328.2 (SMPM, PLUG, FULL DETENT)

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 40.0 GHz.
VSWR (MAX) *	_____	DC TO 26.5 GHz., 1.05 + .010 x FGHz. 26.5 TO 40 GHz., 1.10 + .015 x FGHz.
INSERTION LOSS (dB MAX)*	_____	DC TO 26.5 GHz., .060 dB x $\sqrt{\text{FGHz.}}$ 26.5 TO 40.0 GHz., .080 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	-85 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	500
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	2,500
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	07-1308	3/20/07	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±1/64	ANGULAR X ° ± 1° 0' X ° X' ± 15'	
AB	08-1441	4/21/08	DC	SURFACE ROUGHNESS 63√MIL-STD 10.			
				DRAWN	TS	DATE	TITLE SMPM, JACK TO SMPM, PLUG, RIGHT ANGLE (FULL DETENT)
				APPROVED	DC	DATE	
				CODE IDENT.			DWG. NO. 1101-3031-5450
				2J899	SHEET	1 OF 2	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. LBS.) \_\_\_\_\_ 6.5 \*
- WITHDRAWAL (MIN. LBS.) \_\_\_\_\_ 5.0 \*

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ 100 \*

\* WHEN THE SMPM, JACK IS MATED TO AN SMPM, PLUG, FULL DETENT.

## 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. ) ( 125 VRMS )

## 5. MATERIAL

CONNECTOR BODY (SMPM, PLUG) \_\_\_\_\_ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.  
CONNECTOR BODY (SMPM, JACK) AND CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.  
INSULATORS \_\_\_\_\_ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

CONNECTOR BODY (SMPM, PLUG) \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2.  
CONNECTOR BODY (SMPM, JACK) \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 1, 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.  
CONTACT \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5  
(.00010 MIN. THK.) OVER NICKEL PER QQ-N-290 CLASS 1  
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550.  
INSULATORS \_\_\_\_\_ N/A