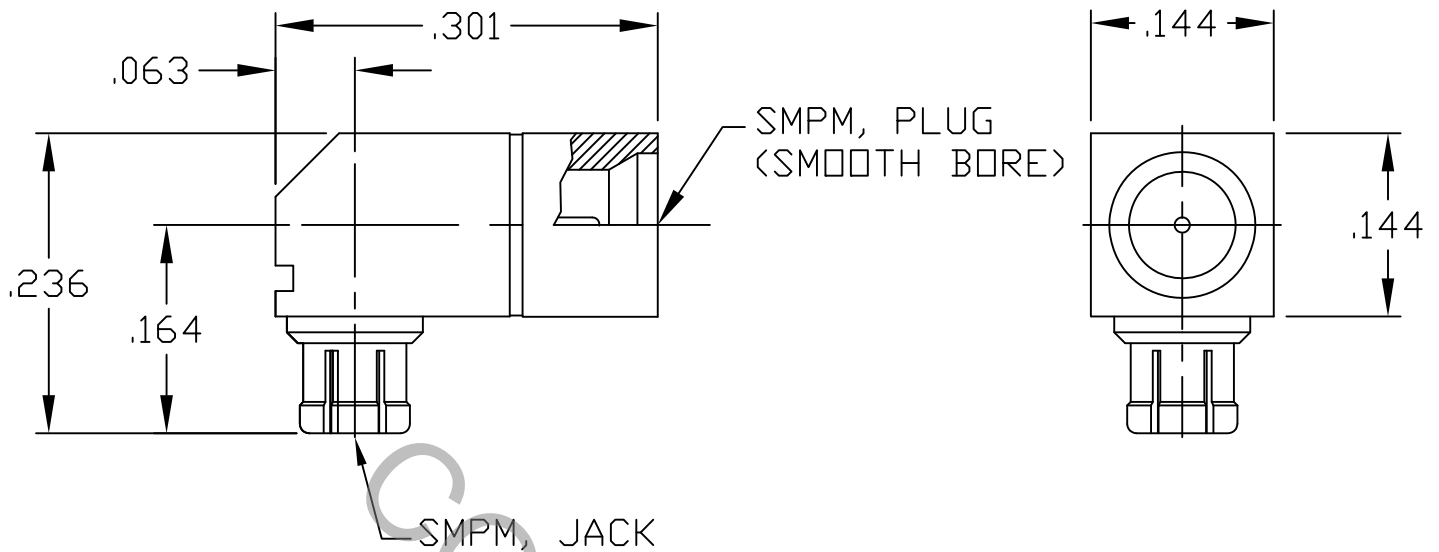


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 328.1 (SMPM, JACK) AND Fig. 328.3 (SMPM, PLUG, SMOOTH BORE)

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			 INCORPORATED HAVERHILL, MA 01835
AA	10-2075	11/16/10	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±1/64	ANGULAR X° ± 1'0" X° X' ± 15"	
				SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN	TS	DATE	11/16/10
				APPROVED	DC	DATE	11/16/10
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 1101-3031-5459
				2J899			

TITLE
SMPM, JACK TO
SMPM, PLUG, RIGHT ANGLE
(SMOOTH BORE)

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.) _____ 1.5 *
- WITHDRAWAL (MIN. LBS.) _____ 0.5 *

CONNECTOR DURABILITY (MIN. MATING) _____ 500 *

* WHEN THE SMPM, JACK IS MATED TO AN SMPM, PLUG, SMOOTH BORE.

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 2700, TYPE 2, CLASS 4.
CONNECTOR BODY (SMPM, JACK) _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000150 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
CONTACT _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5
(.00010 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATORS _____ N/A