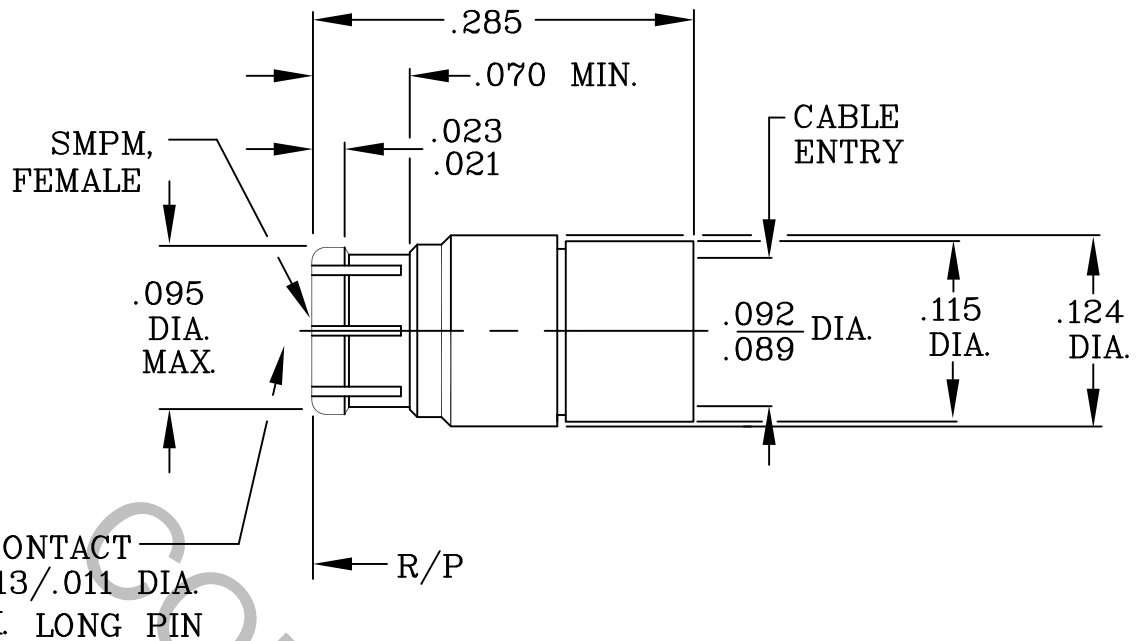


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 328.1 (SMPM FEMALE)


2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz.
VSWR (MAX) *	DC TO 18.0 GHz., 1.20 MAX. 18.0 TO 26.5 GHz., 1.35 MAX. 26.5 TO 40.0 GHz., 1.50 MAX.
INSERTION LOSS (dB MAX) *	.05 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	3.0 GHz., -80 dB - FGHz. 26.5 GHz., -65 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +150 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	03-1960	8/1/03	DC	.X ± .030 .XX ± .010 .XXX ± .005	±1/16"	X° ± 1' 0" X° X ± 15'	TITLE SMPM, FEMALE, DIRECT SOLDER TO .085 S.R. CABLE
AB	16-2003	8/22/16	DC	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN	DC	DATE 8/1/03	DWG. NO. 3000-8520-5425
				APPROVED	DC	DATE 8/1/03	
				CODE IDENT.			
				2J899	SHEET 1 OF 2		

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ N/A
- MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. LBS.) _____ 4.5 (FULL DETENT)
- WITHDRAWAL (MIN. LBS.) _____ 6.5 (FULL DETENT)

CONNECTOR DURABILITY (MIN. MATING) _____ 100 (FULL DETENT)

CABLE RETENSION (SOLDER) _____ 30.0 LBS. MIN.

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 (HIGH FREQUENCY) _____ MIL-STD-202, METHOD 204, COND. D (20 G's)
VIBRATION (RANDOM) _____ MIL-STD-202, METHOD 214, TEST COND. F.
THERMAL SHOCK _____ MIL-STD-202, METHOD 107, TEST COND. B, HIGH TEMP. +165° c.
MOISTURE RESISTANCE _____ MIL-STD-202, METHOD 106, LESS STEP 7b, 1000 MEGOHMS (5 MINUTES).
CORROSION _____ MIL-STD-202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE) _____ MIL-STD-202, METHOD 105, COND. C (70,000 FT.) (190 VRMS MIN.)
CORONA LEVEL _____ 70,000 FEET.

5. MATERIAL

CONNECTOR BODY, CENTER CONTACT, _____ BERYLLIUM COPPER PER ASTM B196/B 196M-03, COPPER ALLOY
ANTI-ROCK RING AND EMI RING No. UNS C17300, TEMPER TD04.

INSULATOR _____ TEFLON ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B

6. FINISH

CONNECTOR BODY, CENTER CONTACT, _____ GOLD PER ASTM-B-488, TYPE I, CODE C, GRADE C, CLASS 0.70
ANTI-ROCK RING AND EMI RING (.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 _____ N/A