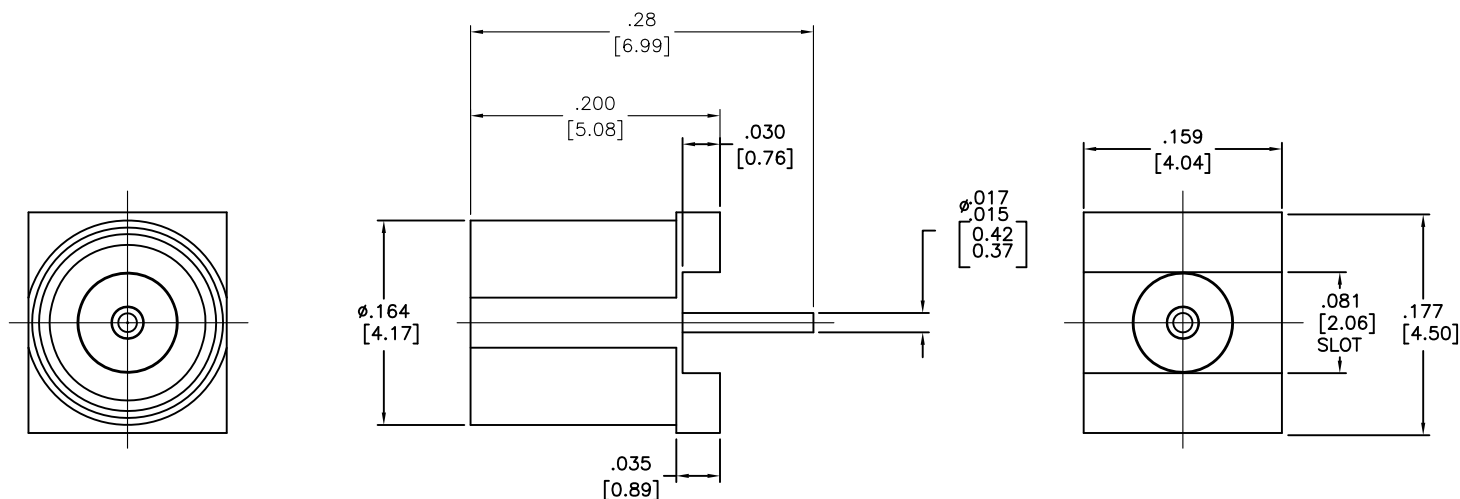


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 326.4 (SMP, PLUG SMOOTH BORE)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 1.1 GHz
VSWR (MAX) *	1.10 + .015 x FGHz
INSERTION LOSS (dB MAX) *	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• 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
				DECIMALS	FRACTIONAL	ANGULAR	
AA	12-1709	8/22/12	TS	.X ± .030 .XX ± .010 .XXX ± .005	±/64	X ° ± 1 0' X ° X' ± 15'	TITLE SMP, PLUG (SMOOTH BORE) PC BOARD SURFACE MOUNT
AB	12-1732	8/27/12	TS				
				DRAWN TS	DATE 8/22/12		
				APPROVED DC	DATE 8/22/12		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 2129-0031-6409	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ N/A

MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) _____ N/A

● WITHDRAWAL (MIN. OUNCES) _____ N/A

CONNECTOR ENGAGEMENT (MAX. LBS.) _____ 2.0

CONNECTOR DISENGAGEMENT (MIN. LBS.) _____ 0.5

CONNECTOR DURABILITY (MIN. CYCLES) _____ 1,000

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.) (190 VRMS)

5. MATERIAL

BODY _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A

CONTACT _____ BERYLLIUM COPPER PER ASTM B196/B 196M-03, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.

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

6. FINISH

BODY _____ GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.75
.000030-.000050 THK) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1,
.000050-.000150 THK) OVER COPPER PER AMS 2418 (.000010 MIN. THK)

CONTACT _____ GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.75
.000030-.000050 THK) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1,
.000050-.000075 THK) OVER COPPER PER AMS 2418 (.000010 MIN. THK)

INSULATOR _____ N/A