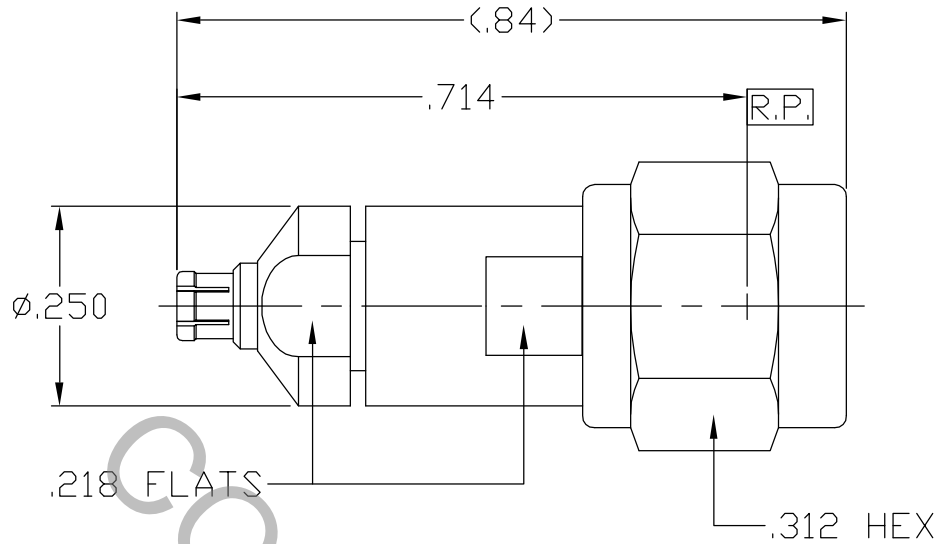


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 323.1 (SMK PLUG) AND Fig. 328.1 (SMPM FEMALE).
2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX.) DC TO 26.5 GHz. *	1.05 + .005 x FGHz.
VSWR (MAX.) 26.5 TO 40.0 GHz. *	1.05 + .010 x FGHz
INSERTION LOSS (dB MAX.) *	.045 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	150
RF LEAKAGE (MIN. dB DOWN)	-90 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO + 125°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	425
INSULATION RESISTANCE (MIN. MEGOHMS)	2,500
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	4.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			HAVERHILL, MA 01835
AA	07-1858	8/27/07	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1'0" X ° X' ± 15'	
				DRAWN DC	DATE 8/27/07	TITLE SMPM FEMALE TO 2.92mm PLUG ADAPTER	
				APPROVED DC	DATE 8/27/07		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-3094-5400	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT	
MAX. AXIAL FORCE _____	4.5 LBS.
MAX. RADIAL TORQUE _____	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES) _____	INTERFACE 32.0
● WITHDRAWAL (MIN. OUNCES) _____	INTERFACE 2.0
SMPM ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	
● ENGAGEMENT _____	DETENT, 5.0
● DISENGAGE _____	DETENT, 2.5
CONNECTOR DURABILITY (MIN. CYCLES)	
● 2.92mm PLUG _____	1,000
● SMPM, FEMALE _____	100

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____	MIL-STD-202, METHOD 102, 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.) (100 VRMS)

5. MATERIAL

2.92 BODY & COUPLING NUT _____	STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
SMPM BODY, CONTACTS & RETAINING RING _____	BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INSULATOR _____	TEFLON PER ASTM-D1710.
GASKET _____	SILICONE RUBBER PER ZZ-R-765.
2.92 BEAD _____	PLASTIC COMPOSIT

6. FINISH

2.92 BODY & COUPLING NUT _____	PASSIVATE PER AMS QQ-P-35, TYPE 2.
SMPM BODY _____	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL per QQ-N-290 (.000150 MIN. THK.) OVER COPPER per MIL-C-14550 (.000010 MIN. THK.)
CONTACTS _____	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN. THK.) OVER NICKEL per QQ-N-290 (.000050 MIN. THK.) OVER COPPER per MIL-C-14550 (.000010 MIN. THK.)
INSULATORS, GASKET & RETAINING RING _____	N/A