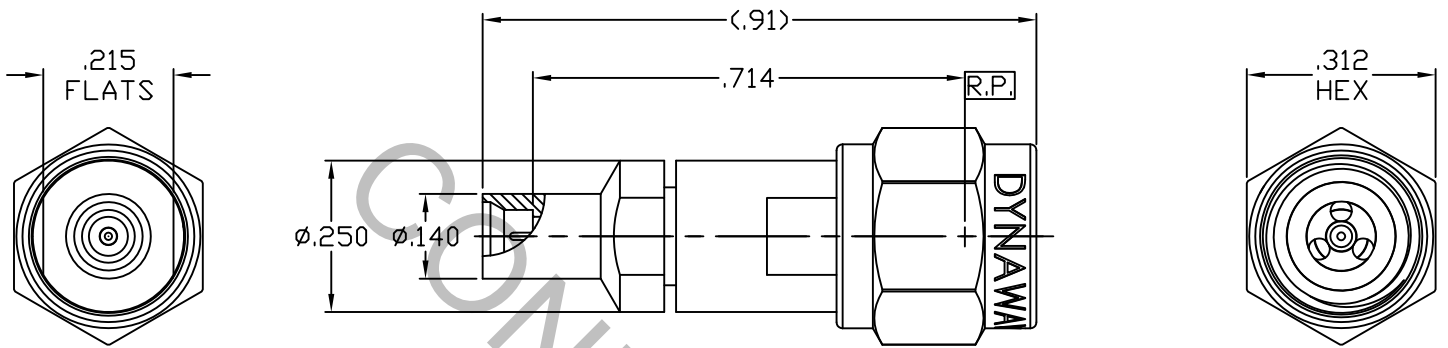


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 323.1 (SMK PLUG) AND Fig. 328.3 (SMPM MALE, SMOOTH BORE).


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

RoHS

This Document contains proprietary and confidential information. **COMPLIANT**

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	16-1380	3/22/16	TS	.X ± .030		X ° ± 1° 0'	TITLE SMPM MALE (SB) TO 2.92mm PLUG ADAPTER
AB	17-2120	9/21/17	DC	.XX ± .010 .XXX ± .005	± 1/64	X ° X' ± 15'	
				DRAWN TS	DATE 3/22/16		DWG. NO. 1109-3194-6250
				APPROVED DC	DATE 3/22/16		
				CODE IDENT. 2J899	SHEET 1 OF 2		

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, 1.5

● DISENGAGE _____ DETENT, 0.5

CONNECTOR DURABILITY (MIN. CYCLES)

● 2.92mm PLUG _____ 500

● SMPM, MALE _____ 500

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

BODIES & COUPLING NUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

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

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

GASKET _____ SILICONE RUBBER PER ZZ-R-765.

2.92 BEAD _____ PLASTIC COMPOSITE

6. FINISH

BODIES & COUPLING NUT _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

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

INSULATORS, GASKET & RETAINING RING _____ N/A