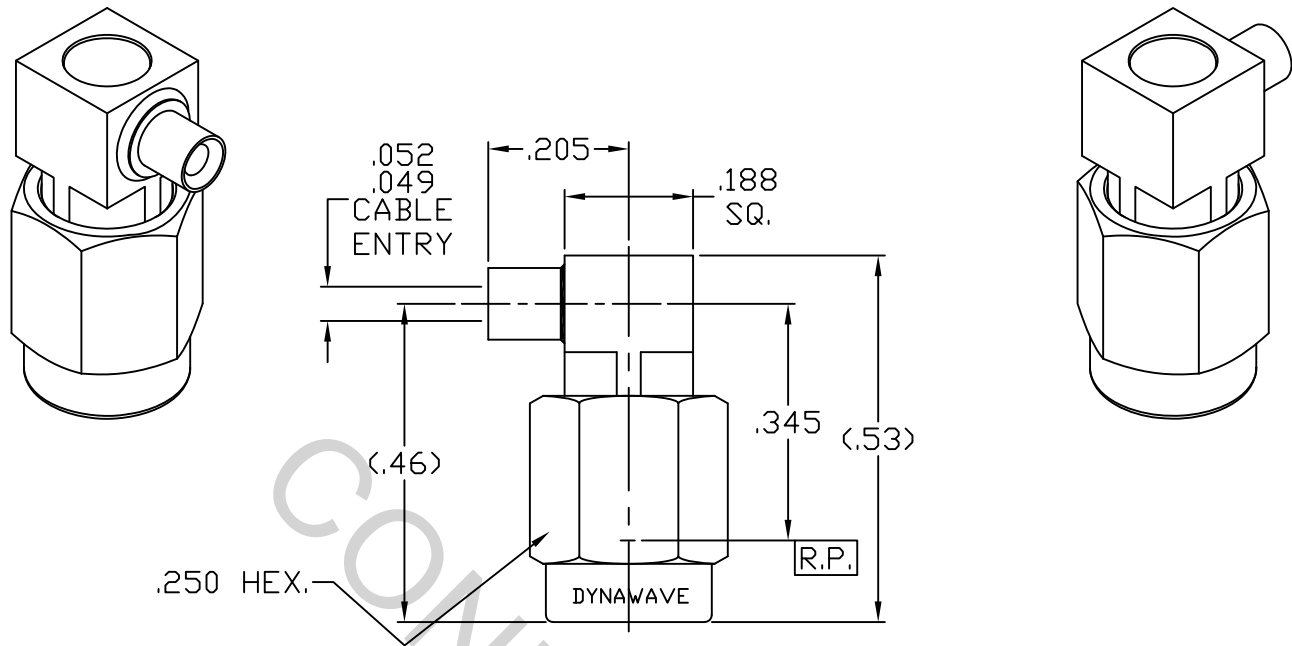


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 319.1 (SSMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 12.4 GHz
VSWR (MAX) *	_____	1.15 + .016 x FGHz
INSERTION LOSS (dB MAX) *	_____	.06 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	160
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

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 Haverhill, MA 01835
AA	06-1614	5/11/06	DC	DECIMALS	FRACTIONAL	ANGULAR	
AB	18-1858	8/7/18	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'	
				DRAWN DC	DATE 5/11/06	TITLE SSMA PLUG, RIGHT ANGLE, DIRECT SOLDER TO Ø.047 SEMI-RIGID CABLE	
				APPROVED DC	DATE 5/11/06		
				CODE IDENT. 2J899	SHEET 1 OF 2		

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 4.0 LBS.

MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX OUNCES) _____ INTERFACE 32.0

● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX IN. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 5 - 8 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65° c TO + 200° 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

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

CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196-90, 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

CAP _____ BRASS PER ASTM-B16, TEMPER H02, ALLOY C36000.

6. FINISH

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

BODY & CAP _____ GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL per QQ-N-290
(.000150 MIN. THK.) OVER COPPER per AMS-2418
(.000010 MIN. THK.)

CONTACT _____ GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL per QQ-N-290
(.000050 MIN. THK.) OVER COPPER per AMS-2418
(.000010 MIN. THK.)

INSULATOR, RETAINING RING & GASKET _____ N/A