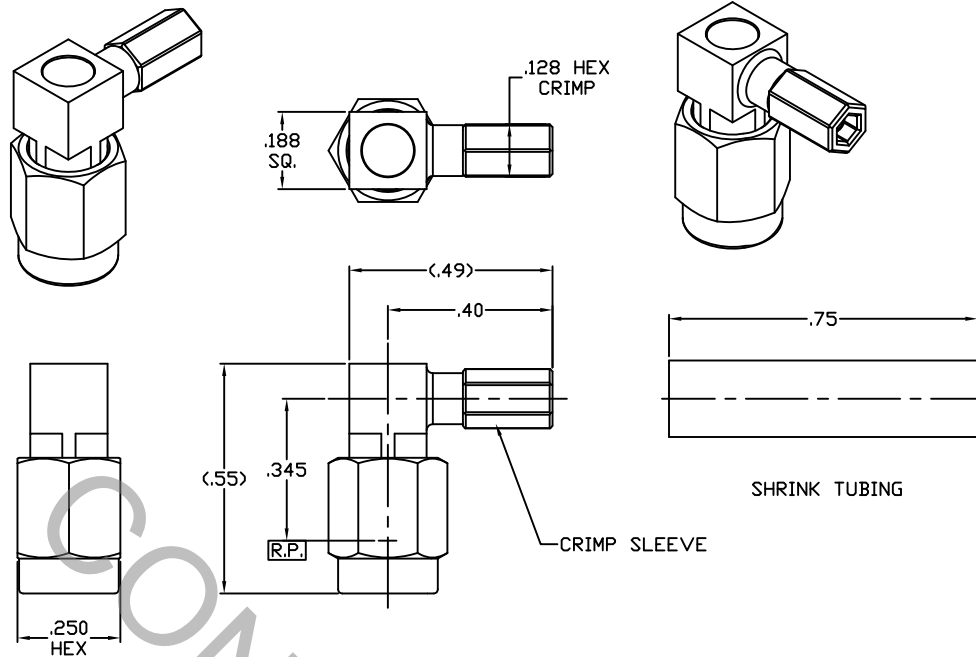


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 12.4 GHz
VSWR (MAX.) *	_____	1.08 + .010 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.10 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	16 ⁷
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	05-1998	10/3/05	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1° 0' X ° X' ± 15'			
AB	10-2059	11/11/10	DC						
AC	13-1976	7/12/13	TS	DRAWN	DC	DATE	10/3/05	TITLE SSMA PLUG, RIGHT ANGLE, CRIMP ATTACHMENT, RG178 CABLE	
				APPROVED	DC	DATE	10/3/05		
				CODE IDENT.		SHEET	1 OF 2		
				2J899		DWG. NO.	9201-7831-6200		

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) _____ N/A
● WITHDRAWAL (MIN. OUNCES) _____ N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) _____ 2.0
CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
RECOMMENDED MATING TORQUE _____ 5 - 7 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 107, 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.) (125 VRMS)

5. MATERIAL

BODY & COUPLING NUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
GASKET _____ SILICONE RUBBER PER ZZ-R-765.
CAP & CRIMP SLEEVE _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.
SHRINK TUBING _____ MIL-DTL-23053/4-102-0 (RIGID 3:1)

6. FINISH

BODY & COUPLING NUT _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.
CRIMP SLEEVE _____ NICKEL PER SAE AMS-QQ-N-290, CLASS 1
(.000200 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)
CONTACT & CAP _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)
INSULATOR, RETAINING RING, GASKET _____ N/A
AND SHRINK TUBING