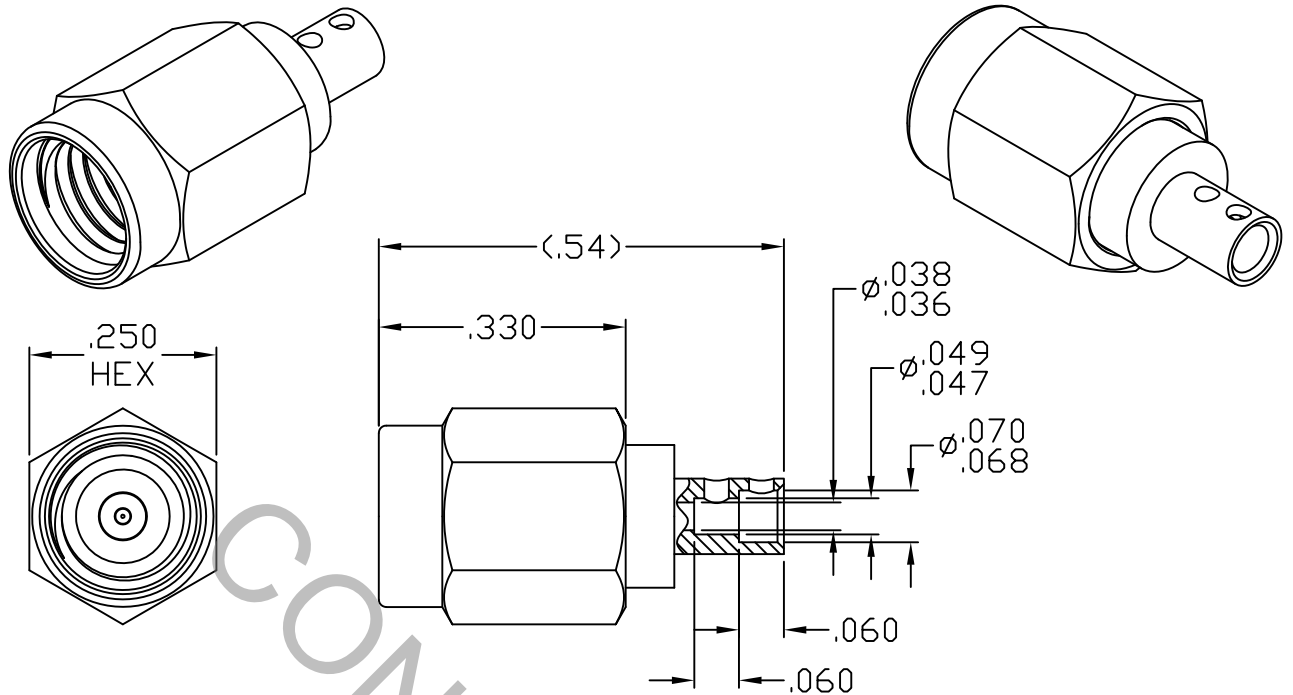


# SPECIFICATION CONTROL DRAWING



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


## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX) *	1.05 + .007 x FGHz
INSERTION LOSS (dB MAX) *	.045 dB x √FGHz
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	167
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			 Haverhill, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	03-1575	5/1/03	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1' 0" X ° X' ± 15'	TITLE SSMA PLUG, STRAIGHT, DIRECT SOLDER TO STORM #421-042 CABLE  DWG. NO. 9200-6721-6240
AB	05-1305	3/9/05	DC				
AC	10-1537	6/7/10	DC	DRAWN GE	DATE 4/30/03		
AD	10-1540	6/8/10	DC	APPROVED DC	DATE 5/1/03		
AE	14-1742	10/10/14	DC				
				CODE IDENT. 2J899	SHEET 1 OF 2		

# 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/DISENGAGEMENT (MAX LBS.) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500

RECOMMENDED MATING TORQUE \_\_\_\_\_ 5 - 8 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, PRESS SLEEVE & 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.

## 6. FINISH

COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

BODY & PRESS SLEEVE \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THK.) OVER NICKEL per SAE-AMS-QQ-N-290  
CLASS 1 (.000050 MIN. THK.) OVER NICKEL (WOODS OR WATTS)  
(.000010 MIN. THK.)

CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.25  
(.000010 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