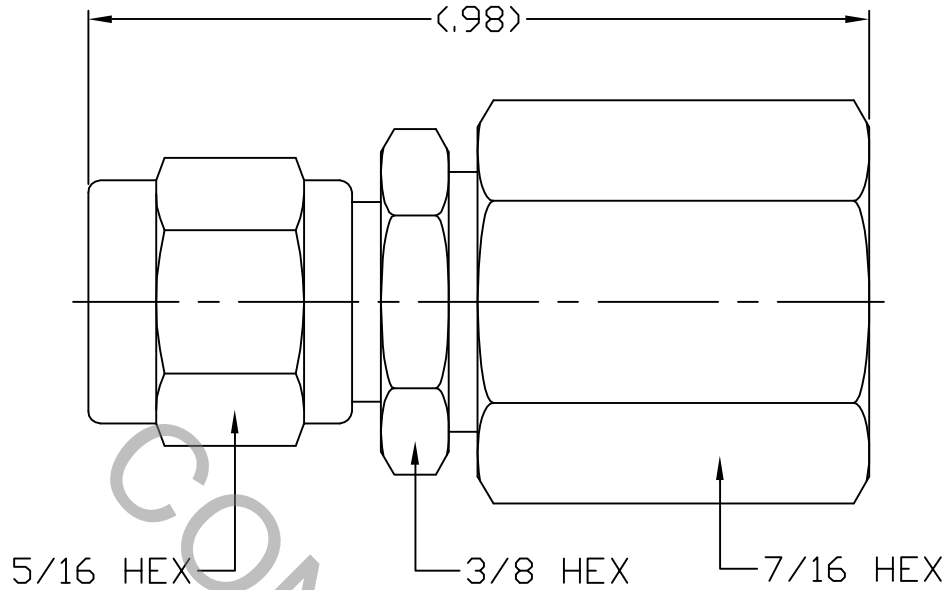


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX) *	1.07 + .008 x FGHz
INSERTION LOSS (dB MAX) *	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	98-0304	11/16/07	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1'0" X ° X' ± 15'	
				DRAWN DC	DATE 11/16/07	TITLE SMA PLUG COMPRESSION CLAMP TO Ø.250 LOW LOSS SEMI-RIGID CABLE	
				APPROVED DC	DATE 11/16/07		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9800-2609-6240	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT  
 MAX AXIAL FORCE \_\_\_\_\_ 6.0 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 \_\_\_\_\_ 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, 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. ) ( 250 VRMS )

## 5. MATERIAL

BODY, COUPLING NUT, BACKNUT & BUSHING \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A  
 CONTACT, RETAINING RING & CLAMP \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY  
 No. UNS-C17300, TEMPER TD04.  
 INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1711-02, TYPE 2, GRADE 1, CLASS A.  
 GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.

## 6. FINISH

BODY, COUPLING NUT, BACKNUT & BUSHING \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2.  
 CLAMP \_\_\_\_\_ NICKEL per QQ-N-290, CLASS 1  
 (.000200 MIN. THK.) OVER COPPER per MIL-C-14550  
 (.000010 MIN. THK.)  
 CONTACT \_\_\_\_\_ 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.)  
 INSULATOR, RETAINING RING & GASKET \_\_\_\_\_ N/A