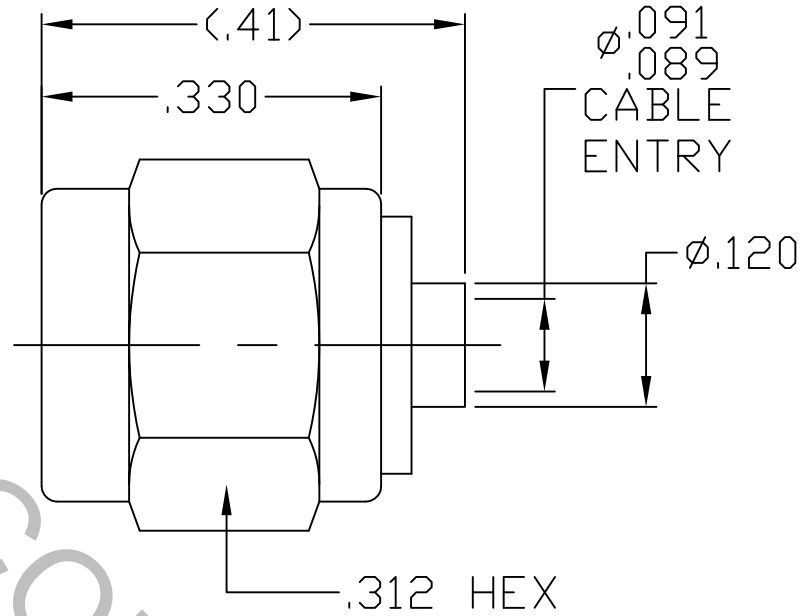


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.4 (SMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX) *	1.05 + .005 x FGHz
INSERTION LOSS (dB MAX) *	.03 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 <small>HAVERHILL, MA 01835</small>
				DECIMALS	FRACTIONAL	ANGULAR	
-	1022	10/93	MB	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'	TITLE <b>SMA PLUG</b> DIRECT SOLDER TO <b>ø.085 SEMI-RIGID CABLE</b>
A	1191	2/96	TS				
AA	05-1377	3/24/05	DC	DRAWN MB	DATE	10/93	
AB	06-2326	10/31/06	DC				
AC	12-1580	7/19/12	DC	APPROVED MB	DATE	10/93	
				CODE IDENT. 2J899	SHEET 1 OF 2		DWG. NO. 9800-8520-6446

# 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 IN. 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. ) ( 190 VRMS )

## 5. MATERIAL

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

CONTACT & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B196/B 196/M-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-765E, CLASS I OR ASM-3304.

## 6. FINISH

BODY \_\_\_\_\_ 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, (.000150 MIN. THK.) OVER WOODS OR WATTS NICKEL  
(.000010 MIN. THK.)

COUPLING NUT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS .70  
(.000030 MIN. THK.) OVER NICKEL per SAE-AMS-QQ-N-290  
CLASS 1, (.000050 MIN. THK.) OVER WOODS OR WATTS NICKEL  
(.000010 MIN. THK.)

CONTACT \_\_\_\_\_ 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