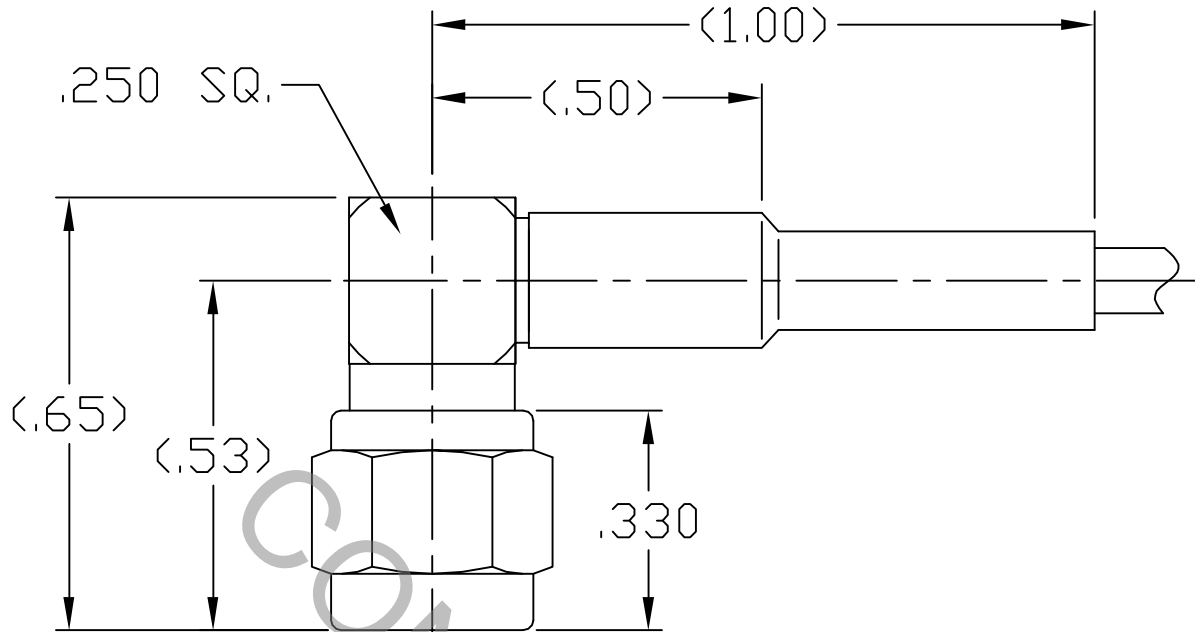


# SPECIFICATION CONTROL DRAWING




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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 3.0 GHz
VSWR (MAX) *	$1.05 + .008 \times \sqrt{FGHz}$
INSERTION LOSS (dB MAX) *	$.045 \text{ dB} \times \sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	325
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835	
AA	06-1400	3/30/06	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1 0' X ° X' ± 15'		
				DRAWN	DC	DATE	3/30/06	TITLE SMA PLUG, RIGHT ANGLE DIRECT SOLDER TO RG 174 / 188 / 316
				APPROVED	DC	DATE	3/30/06	
				CODE IDENT.				DWG. NO. 9801-1621-6240
				2J899	SHEET 1 OF 2			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT  
MAX AXIAL FORCE \_\_\_\_\_ 4.5 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 + 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. ) ( 250 VRMS )

## 5. MATERIAL

BODY & COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A  
CONTACT & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY  
No. UNS-C17300, TEMPER TD04.  
GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765 CLASS HR, GRADE 50 OR 60.  
SOLDER SLEEVE \_\_\_\_\_ BRASS PER ASTM-B16, TEMPER H02, ALLOY 36000.  
INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 4894-91.  
SHRINK TUBING \_\_\_\_\_ MIL-DTL-23053/4 CLASS 1.

## 6. FINISH

COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS-QQ-P-35, TYPE 2.  
BODY & SOLDER SLEEVE \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THK) OVER NICKEL PER QQ-N-290, CLASS 1  
(.000150 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, GASKET & SHRINK TUBING \_\_\_\_\_ N/A