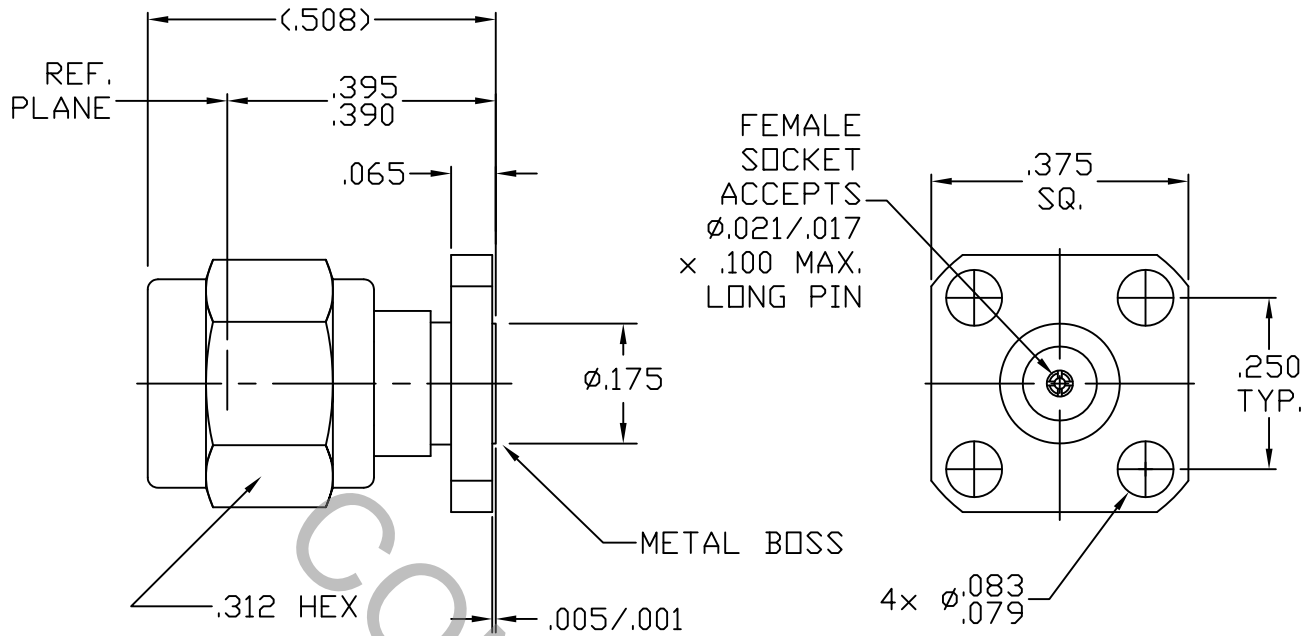


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA PLUG per MIL-STD-348 (Fig. 310-1).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX.) *	_____	1.05 + .006 x FGHZ
INSERTION LOSS (dB MAX.) *	_____	.04 dB x √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)	_____	10,000
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			 INCORPORATED HAVERHILL, MA. 01835
AA	10-2099	11/23/10	TS	DECIMALS X ±.030 .XX ±.010 .XXX ±.005	FRACTIONAL ±1/64	ANGULAR X ° ±1'0" X ° X' ±15'	
				SURFACE ROUGHNESS 63 √MIL-STD-10.			TITLE FIELD REPLACEABLE SMA PLUG 4 HOLE FLANGE WITH METAL BOSS
				DRAWN TS	DATE 11/23/10		
				APPROVED DC	DATE 11/23/10		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9854-0881-6427	

# 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) \_\_\_\_\_ FLANGE END 32.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ FLANGE END 1.0

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 °f )

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

CONTACT AND 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, TPYE 1, GRADE 1, CLASS B.

GASKET \_\_\_\_\_ SILICONE RUBBER per ZZ-R-765 CLASS IIB, GRADE 50 or 60.

## 6. FINISH

BODY AND COUPLING NUT \_\_\_\_\_ 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  
(.000150 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.).

CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5  
(.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, GASKET AND RETAINING RING \_\_\_\_\_ N/A