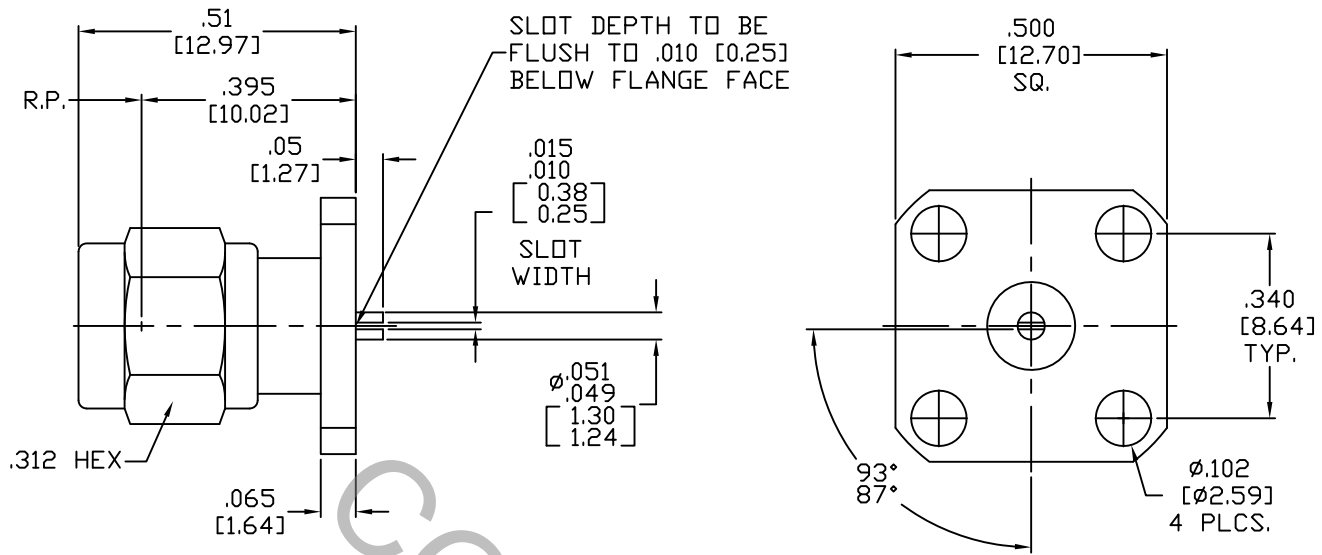


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.57 + .008 x FGHz.
INSERTION LOSS (dB MAX.) *	_____	.045 x √FGHz.
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	335
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)	_____	10,000
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 TOLERANCES			 HAVERHILL MA. 01835
				DECIMALS .X ±.030 .XX ±.010 .XXX ±.005	FRACTIONAL ±/64	ANGULAR X ° ± 1 0' X ° X' ± 15'	
AA	14-2417	11/7/14	TS				TITLE SMA, PLUG 4 HOLE FLANGE MOUNT SLOTTED CONTACT (EPOXY CAPTURE)
				DRAWN TS	DATE 11/7/14		
				APPROVED DC	DATE 11/7/14		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9854-0012-6251	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX.AXIAL FORCE \_\_\_\_\_ 6.0 LBS.  
MAX. RADIAL TORQUE \_\_\_\_\_ 4.0 IN./OZ.  
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 +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. ) ( 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 D 1710-02, TYPE 1, GRADE 1, CLASS B  
GASKET \_\_\_\_\_ SILICONE RUBBER per ZZ-R-765, CLASS IIB, GRADE 50 OR 60

## 6. FINISH

BODY AND COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.  
CONTACT \_\_\_\_\_ GOLD PER ATSM B 488, TYPE 1, 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, GASKET AND RETAINING RING \_\_\_\_\_ N/A