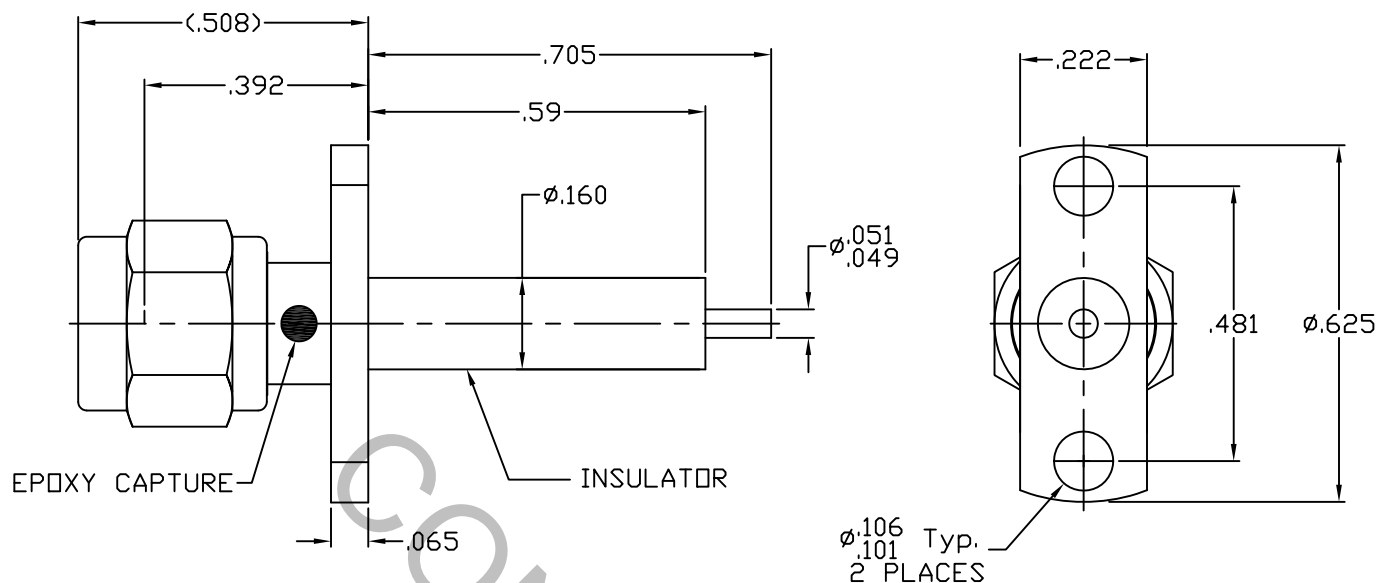


SPECIFICATION CONTROL DRAWING



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


2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX) *	_____	1.06 + .008 x FGHz
INSERTION LOSS (dB MAX) *	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	410
RF LEAKAGE (MIN. dB DOWN)	_____	-85 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,250
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

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	16-2544	12/9/16	TS	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030		X ° ± 1° 0'	TITLE SMA PLUG 2 HOLE FLANGE, 0.050 PIN TERMINAL
				.XX ± .010	± 1/64	X ° X' ± 15'	
				.XXX ± .005			
				DRAWN TS	DATE 12/9/16		
				APPROVED DC	DATE 12/9/16		
				CODE IDENT.			
				2J899	SHEET 1 OF 2		DWG. NO. 9852-0032-2400

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) _____ INTERFACE 32.0

● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0

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.) (310 VRMS)

5. MATERIAL

BODY AND COUPLING NUT _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000

CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196/M, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS 4.

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 0.5
(.000020 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000050 MIN. THK.) OVER COPPER AMS 2418 (.000040 MIN. THK.)

CONTACT _____ 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
(.000050 MIN. THK.) OVER COPPER AMS 2418 (.000010 MIN. THK.)

INSULATOR, RETAINING RING AND GASKET _____ N/A