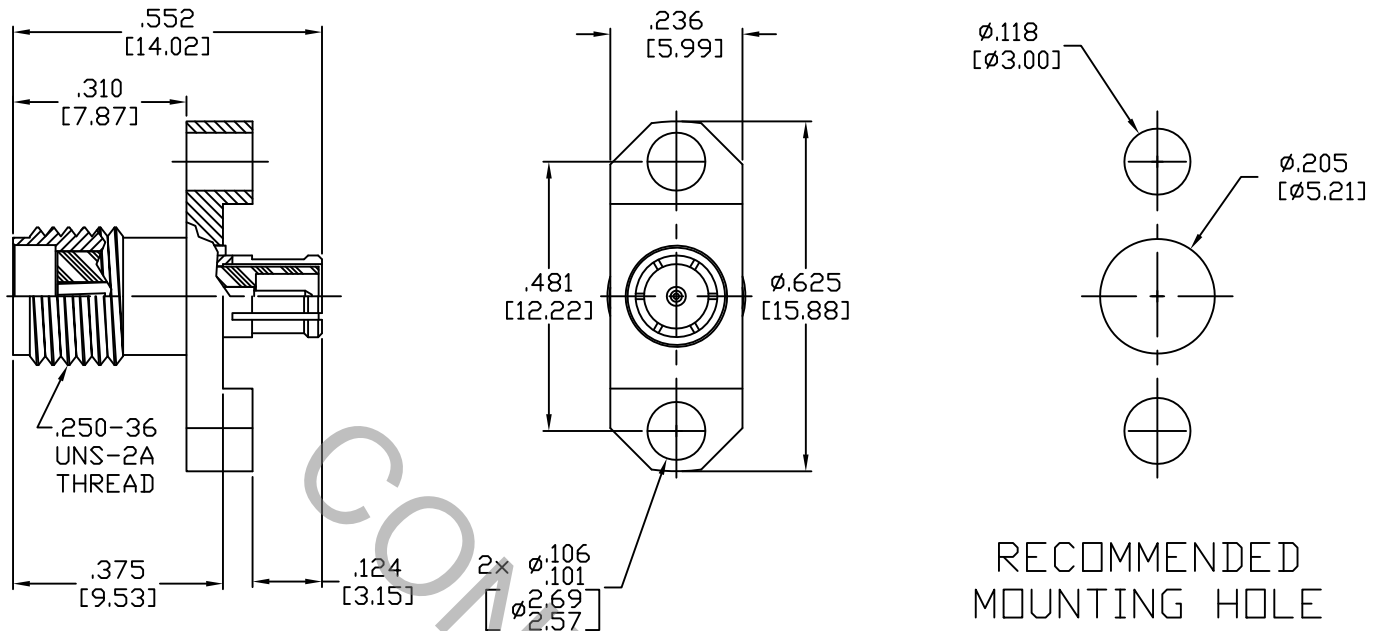


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310-2 (SMA, JACK). AND MCX, PLUG DESIGNED IN ACCORDANCE WITH CECC 22220.


## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 6.0 GHz
VSWR (MAX) *	_____	1.15 + .012 x FGHz
INSERTION LOSS (dB MAX) *	_____	.07 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	333
RF LEAKAGE (MIN. dB DOWN)	_____	-90 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)	_____	2.0
• 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	
AA	17-1217	2/15/17	TS	DECIMALS	FRACTIONAL	ANGULAR		
				.X ± .030		X ° ± 1° 0'	TITLE MCX PLUG TO SMA, JACK, 2 HOLE FLANGE ADAPTER	
				.XX ± .010	± 1/64	X ° X' ± 15'		
				.XXX ± .005				
				DRAWN	TS	DATE	2/15/17	DWG. NO. 1152-1599-5400
				APPROVED	DC	DATE	2/15/17	
				CODE IDENT.		SHEET	1 OF 2	
				2J899				

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.

MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) \_\_\_\_\_ SMA 32.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ SMA 1.0

CONNECTOR ENGAGEMENT FORCE (MAX. LBS.) \_\_\_\_\_ SMA 2.0 / MCX 3.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500

RECOMMENDED SMA MATING TORQUE \_\_\_\_\_ 7.0 / 10.0 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 107, 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. ) ( 250 VRMS )

POWER HANDLING \_\_\_\_\_ 300 WATTS @ 3.0 GHz. (SEA LEVEL) AND ROOM TEMPERATURE.

## 5. MATERIAL

BODY AND CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

FLANGE \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

BODY AND CENTER 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.)

FLANGE \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

INSULATOR \_\_\_\_\_ N/A