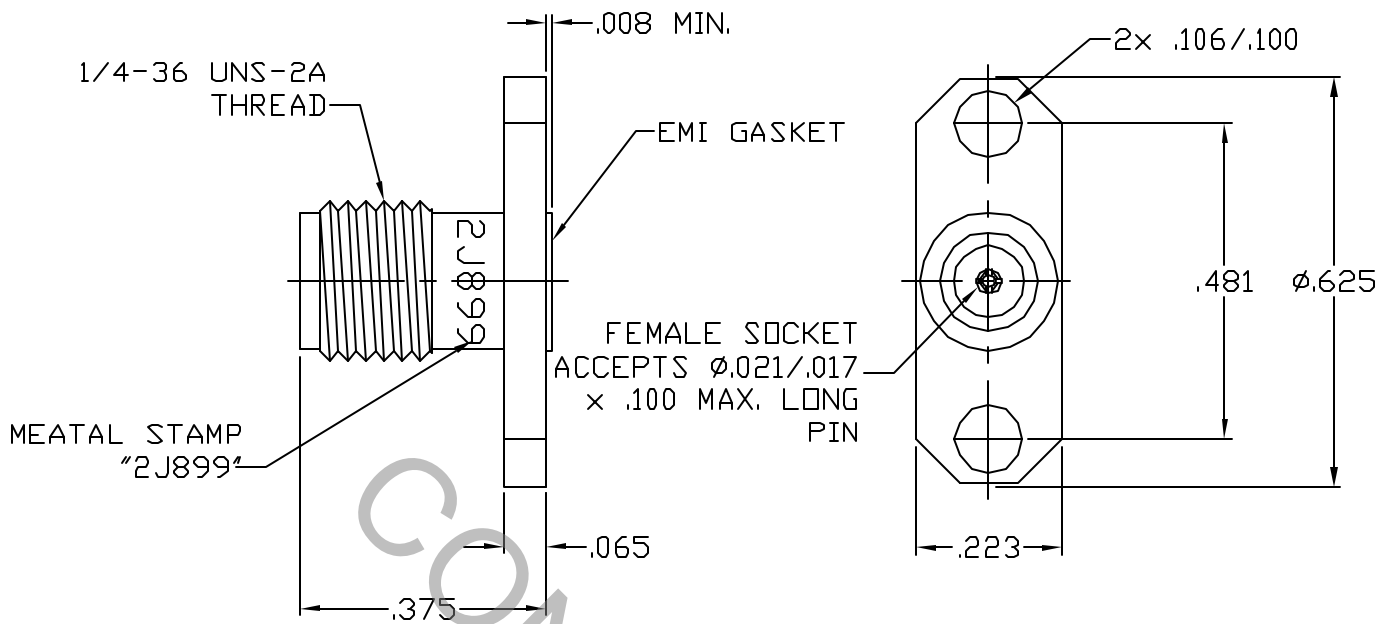


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA JACK per MIL-STD-348 (Fig. 310-2).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX.) *	_____	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.03 dB x $\sqrt{\text{FGHz}}$
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)	_____	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	04-1745	6/10/04	MRH	DECIMALS X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± /64	ANGULAR X ° ± 1' 0" X ° X' ± 15'	
				DRAWN MRH	DATE 6/10/04	TITLE SMA, JACK 2 HOLE FLANGE FIELD REPLACEABLE	
				APPROVED MRH	DATE 6/10/04		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9952-0781-1482	

# 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 48.0 OZ. / FLANGE 32.0 OZ.
● WITHDRAWAL (MIN. OUNCES)	_____	INTERFACE 2.0 OZ. / FLANGE END 1.0 OZ.
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	_____	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CONTACT	_____	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C 1730D, TEMPER HT
INSULATOR	_____	TEFLON PER ASTM D 4894-91
EMI GASKET	_____	SILVER PLATED ALUMINUM IN SILICONE

## 6. FINISH

BODY	_____	PASSIVATE PER QQ-P-35D, TYPE I
CONTACT	_____	<b>GOLD per MIL-G-46204, TYPE II, GRADE C, CLASS 2</b> <b>(.000100 Minimum Thickness) OVER NICKEL per</b> <b>QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER</b> <b>COPPER per MIL-C-14550 (.000010 Minimum Thickness).</b>
INSULATOR	_____	N/A
EMI GASKET	_____	N/A