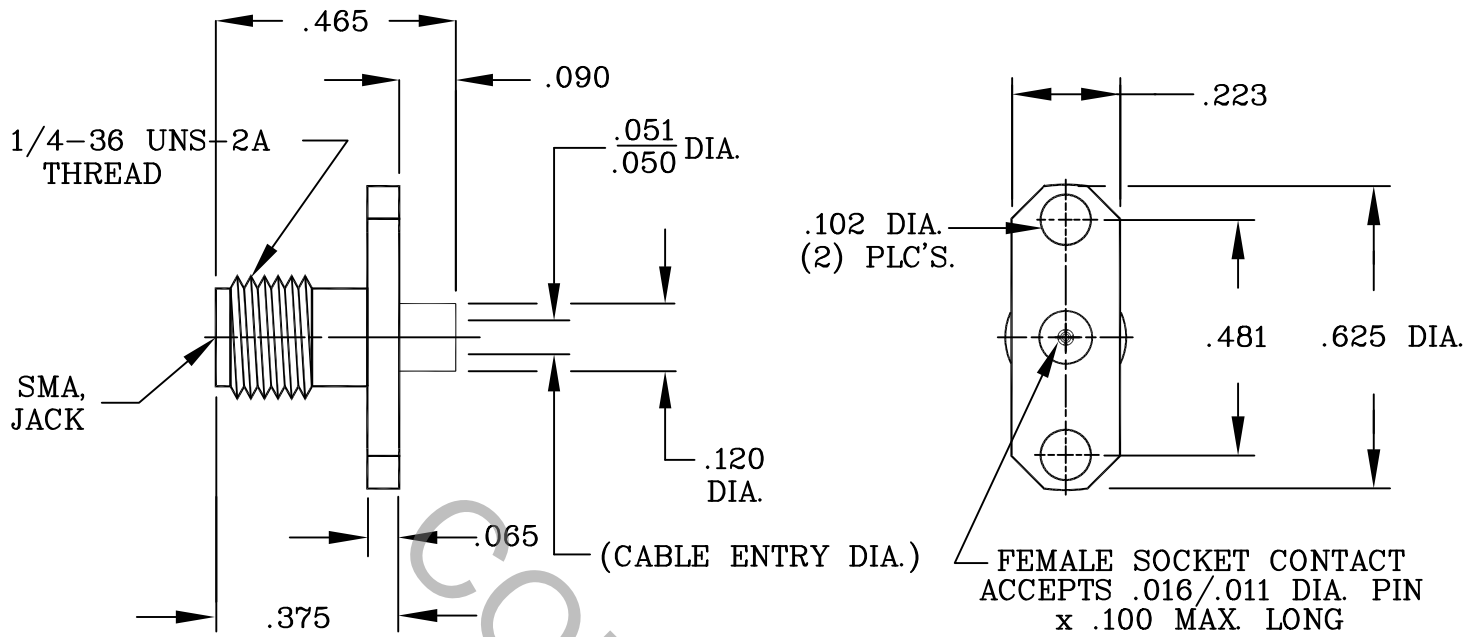


# SPECIFICATION CONTROL DRAWING



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) *	_____	1.07 + .010 x FGHz
INSERTION LOSS (dB MAX.)	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	170
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	500
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

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 <small>HAVERHILL, MA 01835</small>
				DECIMALS	FRACTIONAL	ANGULAR	
AA	01-0091	2/5/01	DGG	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 10' X ° X' ± 15'	<b>TITLE</b> SMA, JACK 2 HOLE FLANGE CAPTIVATED CONTACT TO .047 SEMI-RIGID CABLE
AB	05-2291	12/6/05	DC				
BA	09-1528	7/16/09	DC	DRAWN	KLF	DATE 2/2/01	
BB	09-1765	10/9/09	DC				
BC	09-1832	10/29/09	DC	APPROVED	DGG	DATE 2/2/01	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9952-4721-6400
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT	
MAX AXIAL FORCE _____	6.0
MAX RADIAL TORQUE _____	N/A
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) _____	1,000
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. ) (25 VRMS )

## 5. MATERIAL

BODY _____	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A
CONTACT _____	BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER ALLOY No. UNS C 17300, TEMPER TD04
INSULATOR _____	TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

BODY _____	GOLD PER ASTM B 488, TYPE 1, CODE C. CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.).
CONTACT _____	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5 (.00010 MIN. THK.) OVER NICKEL PER QQ-N-290 (.000050 MIN. THK.) OVER COPPER PER MIL-C-14550 (.000010 MIN. THK.).
INSULATOR _____	N/A