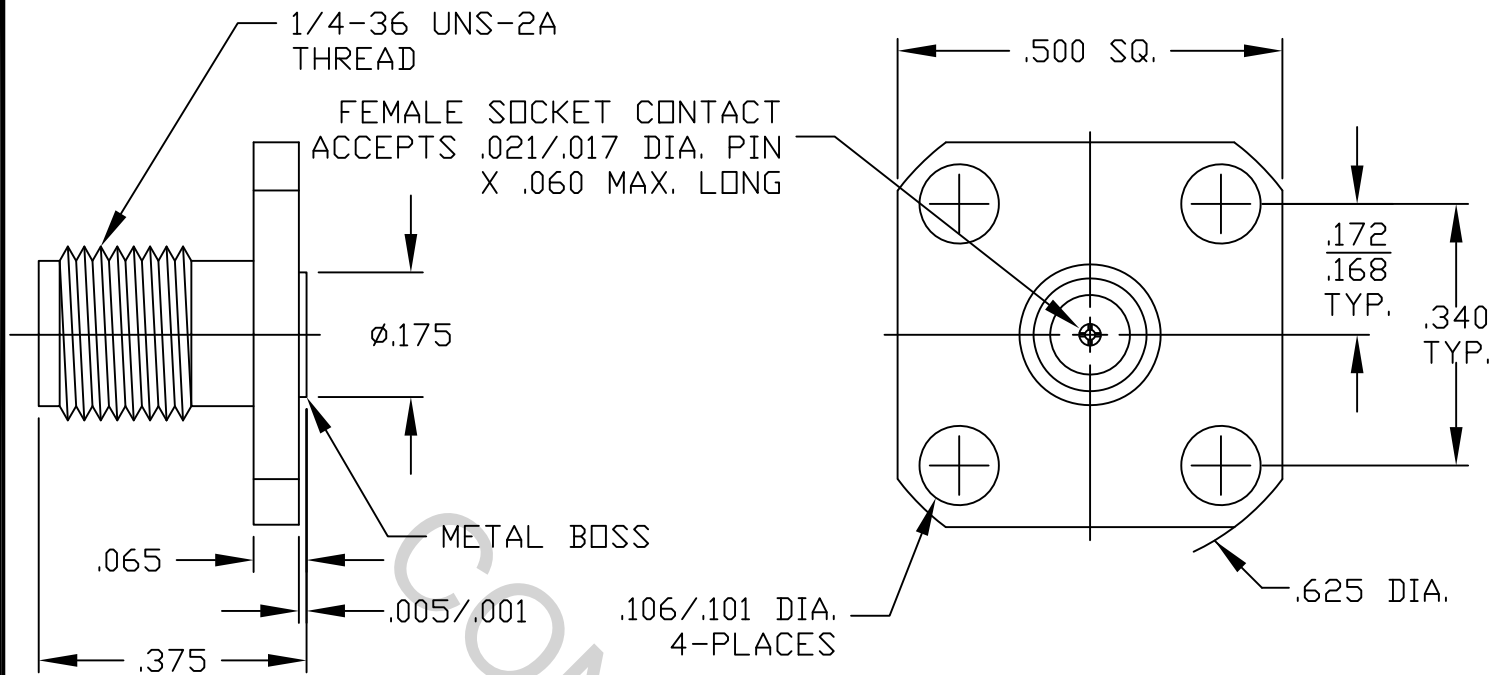


# SPECIFICATION CONTROL DRAWING



## 1. MATING INTERFACE DIMENSIONS PER MIL-STD-348-310.2


## 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

This Document contains proprietary and confidential information.

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 INCORPORATED HAVERHILL, MA. 01835
AA	06-1266	3/2/06	DC	DECIMALS $.X \pm .030$ $.XX \pm .010$ $.XXX \pm .005$	<b>TITLE</b> SMA JACK 4 HOLE FLANGE FIELD REPLACEABLE WITH METAL BOSS
AB	18-1497	5/4/18	DC	FRACTIONAL $\pm 1/64$	
				DRAWN: SS      DATE: 3/2/06 APP.: DC        DATE: 3/2/06	
				CODE IDENT. 2J899	SHEET 1 OF 2 DWG. NO. 9954-0881-6220

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX. AXIAL FORCE _____	6.0 LBS.
MAX. RADIAL TORQUE _____	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES) _____	INTERFACE 48.0, REAR 32.0
● WITHDRAWAL (MIN. OUNCES) _____	INTERFACE 2.0, REAR 1.0
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. ) ( 190 VRMS )

## 5. MATERIAL

CONNECTOR BODY _____	STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
CONTACT _____	BERYLLIUM COPPER PER ASTM-B-196, COPPER ALLOY UNS C17300, TEMPER TD04.
INSULATOR _____	TEFLON PER ASTM-D-1710, TYPE 1, GRAD 1, CLASS B.

## 6. FINISH

CONNECTOR BODY _____	PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.
CONTACT _____	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290 (.000050 MIN. THK.) OVER COPPER PER AMS-2418, (.000010 MIN. THK.)
INSULATOR _____	N/A