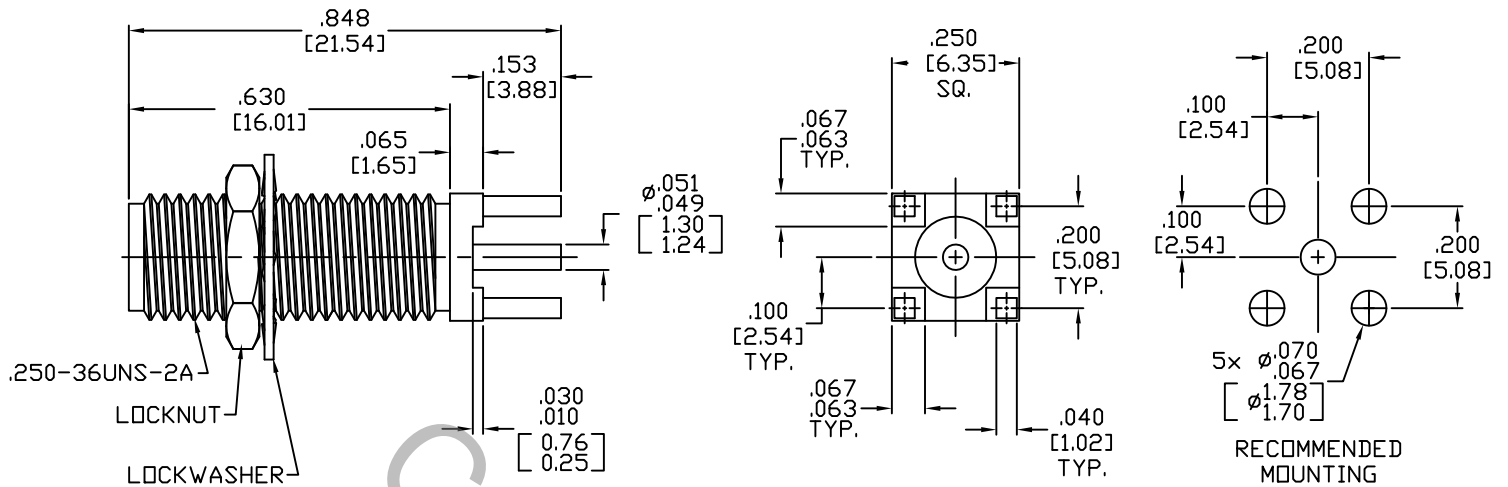


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 310.2) SMA JACK

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 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)	_____	335
RF LEAKAGE (MIN. dB DOWN)	_____	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	3.0
• 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	18-1296	3/12/18	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±/64	ANGULAR X° ± 1' 0" X° X' ± 15'	
				SURFACE ROUGHNESS 63 ✓ MIL-STD 10.			
				DRAWN TS	DATE 3/12/18	TITLE SMA JACK STRAIGHT 4 POST, P.C. MOUNT STRAIGHT TERMINAL	
				APPROVED DC	DATE 3/12/18		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9920-0031-2410	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 4.5 LBS.
- MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) _____ 48.0
- WITHDRAWAL (MIN. OUNCES) _____ 2.0

CONNECTOR DURABILITY (MIN. MATING) _____ 500

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.) (250 VRMS)

5. MATERIAL

CONNECTOR BODY AND HEX NUT _____ BRASS PER ASTM B36, TEMPER H02, ALLOY C36000

CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM B196/B, 197M-03 COPPER ALLOY
No. UNS C17300, TEMPER TD04.

LOCK WASHER _____ 410 STAINLESS STEEL

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

6. FINISH

CONNECTOR BODY, HEX NUT & LOCKWASHER _____ GOLD PER ASTM B488, TYPE I, GRADE C, CLASS 0.75
(.000030 MIN.) OVER NICKEL PER QQ-N-290, CLASS 1
(.00010 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)

CENTER CONTACT _____ GOLD PER ASTM B488, TYPE I, GRADE C, CLASS 2.5
(.000010 MIN.) OVER NICKEL PER QQ-N-290, CLASS 1
(.000050 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)

INSULATOR _____ N/A