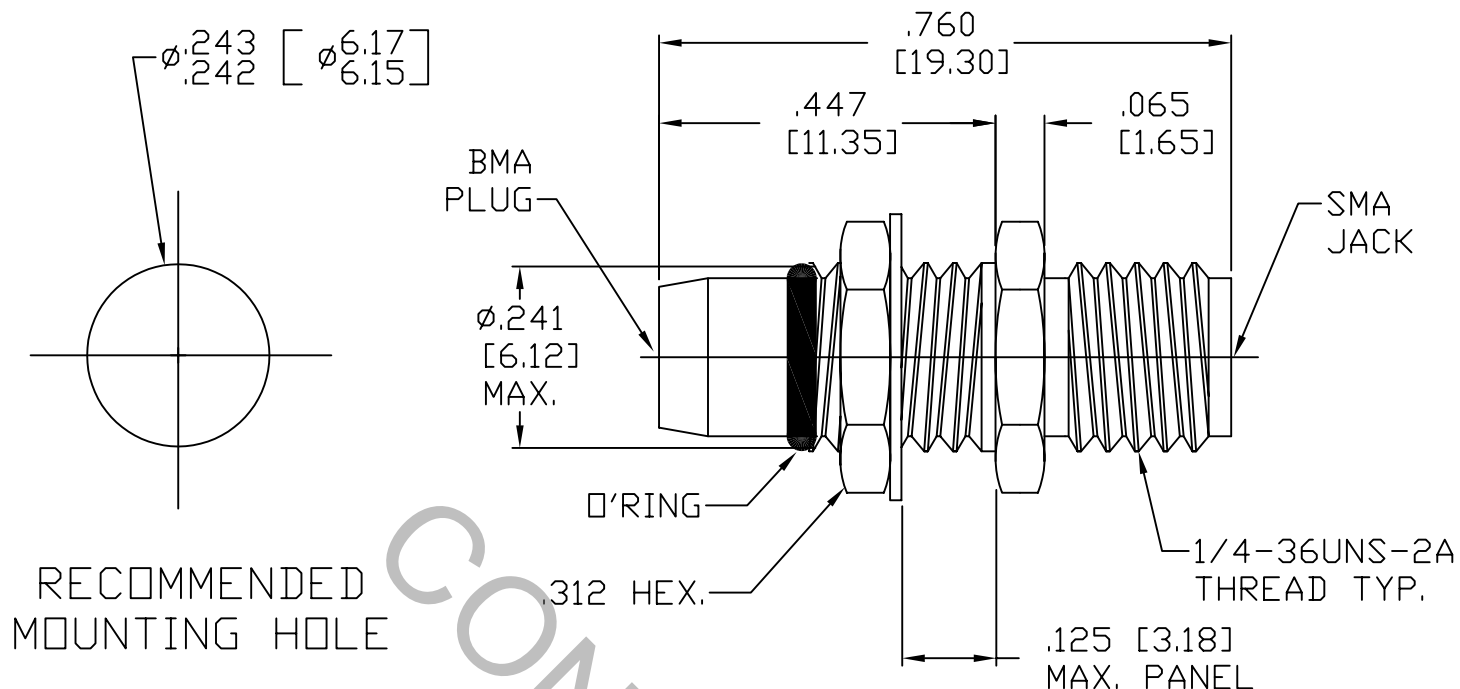


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.2 (SMA JACK) and Fig. 321.1 (BMA, PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 20.0 GHz
VSWR (MAX) *	_____	1.05 + .007 x FGHz
INSERTION LOSS (dB MAX) *	_____	.04 dB x √FGHz
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	300
RF LEAKAGE (MIN. dB DOWN)	_____	-100 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)	_____	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			INCORPORATED HAVERHILL, MA 01835
AA	07-1508			DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1' 0" X ° X' ± 15'	
				DRAWN TS	DATE 5/10/07	TITLE SMA, JACK BMA, PLUG, BULKHEAD ADAPTER	
				APPROVED DC	DATE 5/10/07		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1110-2899-6229	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 4.5 LBS.

MAX RADIAL TORQUE _____ N/A

SMA INTERFACE

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX OUNCES) _____ 24.0

● WITHDRAWAL (MIN. OUNCES) _____ 2.0

ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) _____ 2.0

MATING CYCLES (MINIMUM) _____ 500

RECOMMENDED MATING TORQUE :

INTERFACE _____ 7 - 10 IN. LBS.

PACKAGE _____ 17 - 20 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.) (250 VRMS)

5. MATERIAL

BODY, LOCKNUT AND LOCKWASHER _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A

CONTACT _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

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

O'RING _____ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

BODY, LOCKNUT AND LOCKWASHER _____ PASSIVATE PER AMS QQ-P-35, TYPE 2

CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5
(.000100 MIN. THK.) OVER NICKEL per QQ-N-290
(.000050 MIN. THK.) OVER COPPER per MIL-C-14550
(.000010 MIN. THK.)

INSULATOR AND O'RING _____ N/A