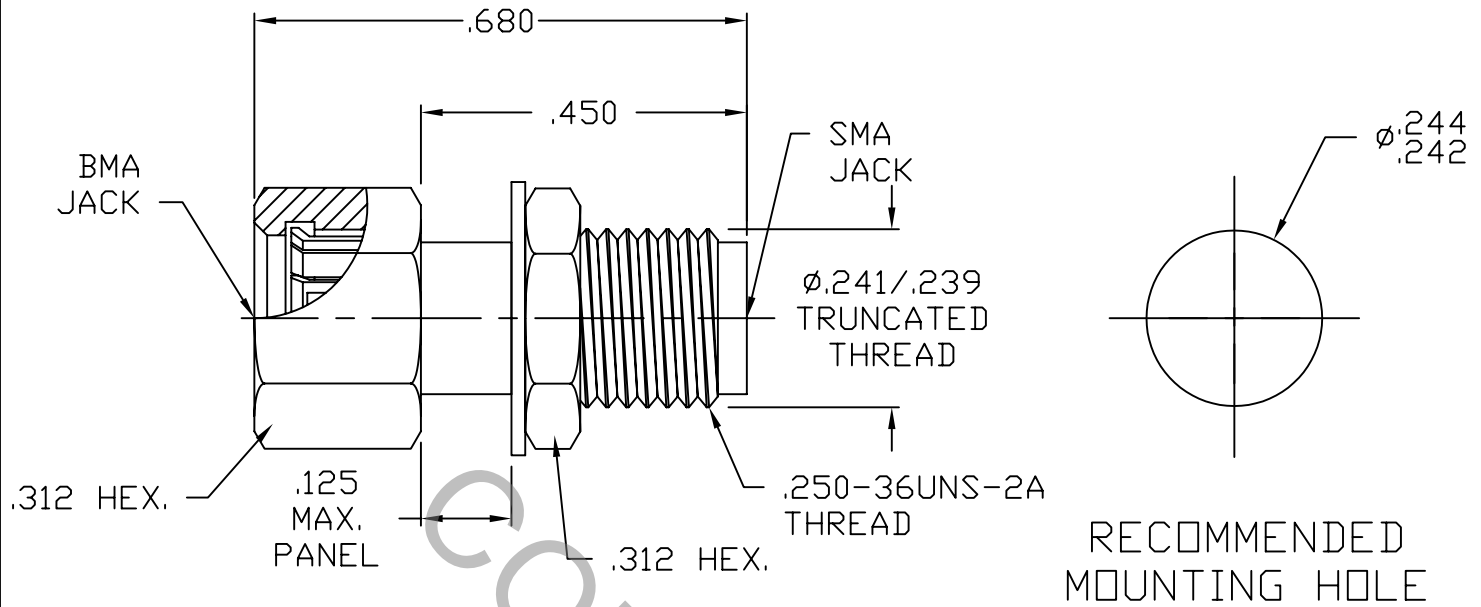


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A Fig. 310.2 (SMA, JACK) AND MIL-STD-348A Fig. 321.2 (BMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX) *	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• BMA INTERFACE GAP (.000 to .015)	.035 dB x $\sqrt{\text{FGHz}}$
• BMA INTERFACE GAP (.016 to .030)	.050 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• BMA INTERFACE BOTTOMED (.000 GAP)	100 dB - FGHz
• BMA INTERFACE GAP (.001 to .015)	90 dB - FGHz
• BMA INTERFACE GAP (.016 to .030)	75 dB - FGHz
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)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES			 HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	08-1138	2/6/08	TS	.X ± .030 .XX ± .010 .XXX ± .005	±/64	X° ± 1' 0" X° X' ± 15"	TITLE BMA JACK TO SMA, JACK SCREW-IN ADAPTER
				SURFACE ROUGHNESS 63 √ MIL-STD-10.			
				DRAWN TS	DATE 2/6/08		
				APPROVED DC	DATE 2/6/08		
				CODE IDENT.	SHEET 1 of 3	DWG. NO.	1110-6799-6288
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

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

BMA ENGAGEMENT FORCES

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

BMA DURABILITY (MIN. MATING) _____ 1000

RECOMMENDED MATING FORCES

- MIC PACKAGE (TORQUE) _____ 20-24 IN. LBS.
- PLUG CONNECTOR - INSERTION FORCE _____ 3.0 LBS. MAXIMUM

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

CONNECTOR BODY, LOCKNUT AND LOCK WASHER _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.

CENTER CONTACT AND SPRING FINGERS _____ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER ALLOY No. UNS 17300, TEMPER TDO4.

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

6. FINISH

CONNECTOR BODY, LOCKNUT AND LOCK WASHER _____ PASSIVATE PER AMS QQ-P-35, TYPE 2.

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

INSULATOR _____ N/A

SPECIFICATION CONTROL DRAWING

