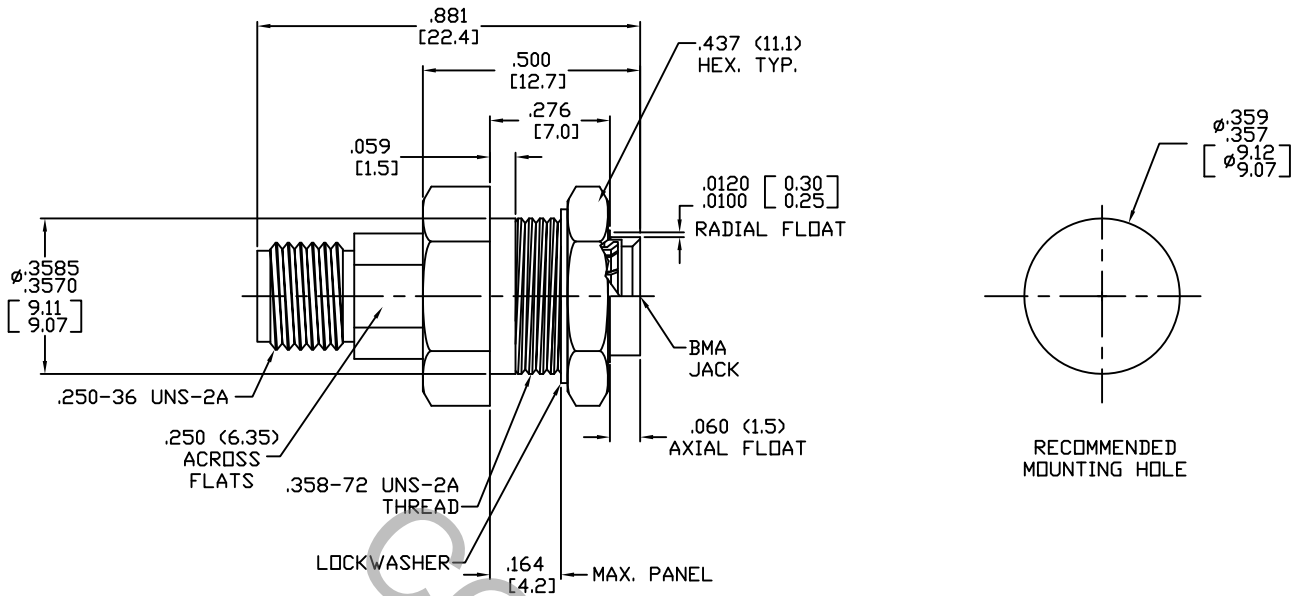


SPECIFICATION CONTROL DRAWING



LOW INTERMOD REQUIREMENT

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

2. ELECTRICAL

FREQUENCY RANGE GHz _____	DC TO 20.0 GHz.
VSWR• (MAX.) (FULLY MATED) _____	1.05 + .007 x FGHz.
INSERTION LOSS (dB MAX.) _____	-.035 dB x √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) _____	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

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 <small>INCORPORATED</small> <small>HAVERHILL, MA 01835</small>
AA	15-2765	12/7/15	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005 FRACTIONAL ± 1/64 ANGULAR X° ± 1° 0' X° X' ± 15'	
				DRAWN TS DATE 12/7/15	TITLE BMA JACK TO SMA JACK, FLOATING BULKHEAD MOUNT
				APPROVED DC DATE 12/7/15	
				CODE IDENT. 2J899	DWG. NO. 1160-6799-6242
				SHEET 1 OF 2	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ INTERFACE 48.0 (SMA AND BMA)
- WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0 (SMA AND BMA)

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 7-10 IN-LB (FEMALE SMA)

CONNECTOR RECOMMENDED MATING TORQUE _____ 5-8 IN-LB

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, FLANGE BODY _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
LOCKNUT, LOCKWASHER, AND FLOAT SPRING

CONTACT AND BMA SPRING FINGERS _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER
ALLOY UNS-C-17300, TEMPER TD04

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

BMA CONTACT HOOD _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000

6. FINISH

CONNECTOR BODY, LOCK NUT, LOCKWASHER, _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
AND FLOAT SPRING

CENTER CONTACT, BMA SPRING AND BMA SPRING _____ GOLD PER ASTM B488, TYPE 1, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000040 MIN. THK.)

INSULATOR _____ N/A