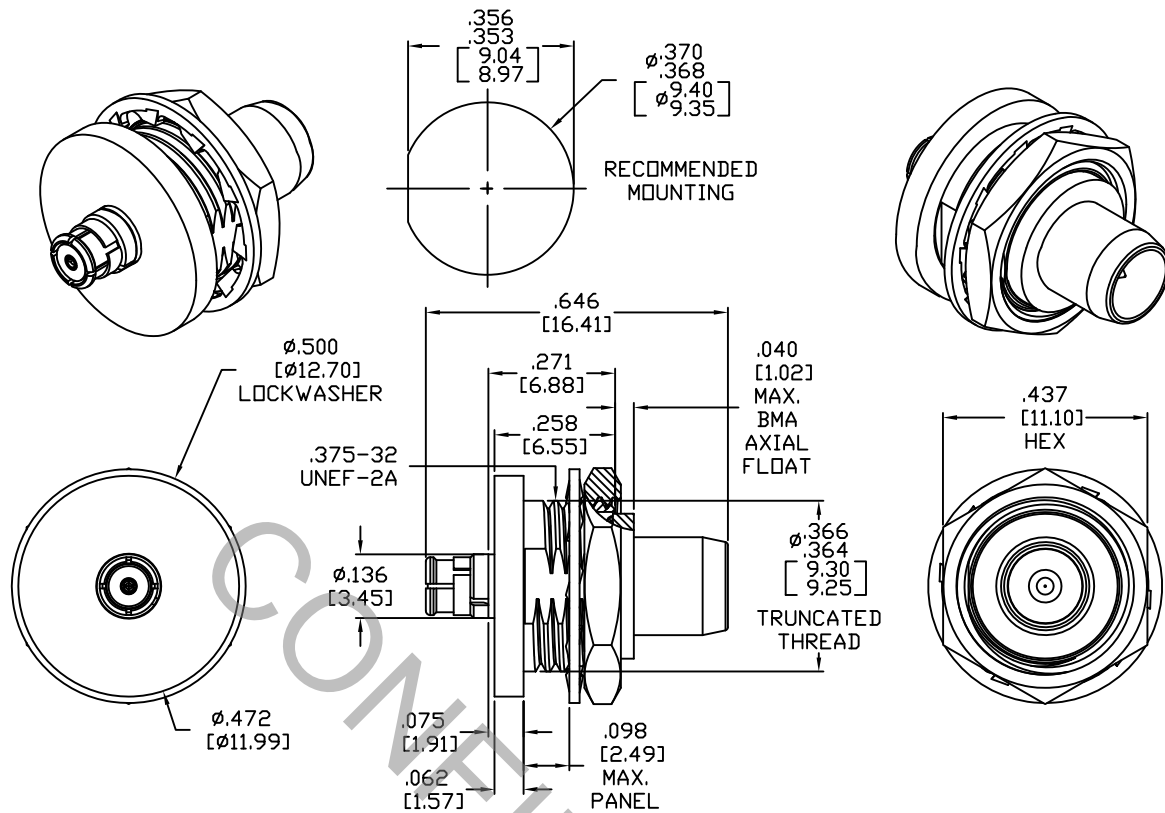


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.1a (SMP JACK) AND Per MIL-STD-348 Fig. 321.1 (BMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 12.5 GHz
VSWR (MAX.) *	_____	1.10 + .015 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	170
RF LEAKAGE (MIN. dB DOWN)	_____	-80 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	500
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

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	12-2249	12/12/12	TS	DECIMALS	FRACTIONAL	ANGULAR	
AB	12-2268	12/18/12	TS	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'	
AC	12-2281	12/19/12	TS	DRAWN	TS	DATE 12/12/12	TITLE SMP JACK TO FLOATING BMA PLUG BULKHEAD ADAPTER
AD	13-1013	1/3/13	DC	APPROVED	DC	DATE 12/12/12	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 1160-2028-6200
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE _____ 4.5 LBS.

MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

● INSERTION (MAX. POUNDS) _____ 15.0 (FULL DETENT)

● WITHDRAWAL (MIN. POUNDS) _____ 5.0 (FULL DETENT)

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500 (BMA PLUG)

100 (SMP JACK, FULL DETENT)

250 (SMP JACK, LIMITED DETENT)

1,000 (SMP JACK, SMOOTH BORE)

RECOMMENDED MOUNTING TORQUE _____ N/A

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 107, 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.) (125 VRMS)

5. MATERIAL

BMA BODY, FLANGE & HEXNUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CONTACT, SMP BODY, ANTI-ROCK & EMI RINGS _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

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

SPRING _____ 300 SERIES STAINLESS STEEL

LOCKWASHER _____ 400 SERIES STAINLESS STEEL

6. FINISH

BMA BODY, FLANGE, HEX NUT, LOCKWASHER & SPRING - PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

SMP BODY, ANTI-ROCK & EMI RINGS _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
CLASS 1 (.000100 MIN. THK.) OVER NICKEL (WOODS OR WATTS)
(.000040 MIN. THK.)

CONTACTS _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)

INSULATORS _____ N/A