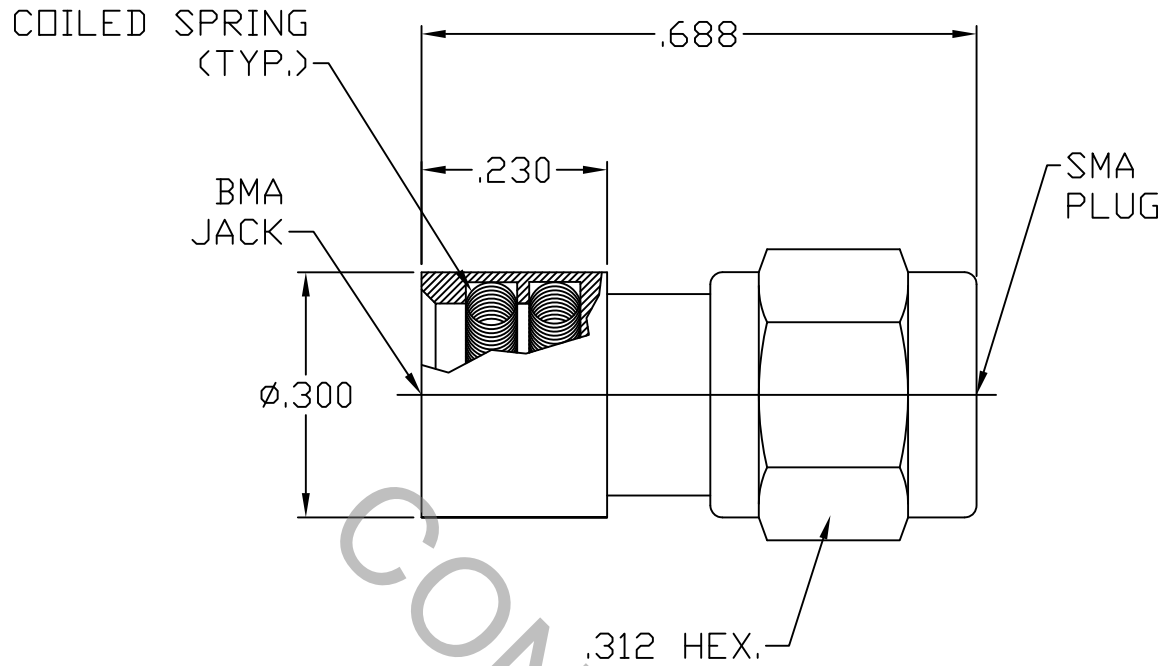


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348
 Figures 321.2 (BMA JACK) & 310.1 (SMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 20.0 GHz
VSWR (MAX) *	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)	-85 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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
-	753	6/90	TS	.X ± .030		X ° ± 1° 0'	
AA	11-1619	7/20/11	TS	.XX ± .010	± 1/64	X ° X' ± 15'	
				.XXX ± .005			
				DRAWN TS	DATE 6/90	TITLE BMA JACK TO SMA PLUG ADAPTER	
				APPROVED DGG	DATE 6/90		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-2998-6250	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX. AXIAL FORCE _____ 4.5 LBS.

MAX. RADIAL TORQUE _____ N/A

BMA ENGAGEMENT FORCES

● INSERTION (MAX. OUNCES) _____ 48.0

● WITHDRAWAL (MIN. OUNCES) _____ 4.0

SMA AND BMA DURABILITY (MIN. MATING) _____ 500

SMA RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS., SMA

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.) (300 VRMS)

5. MATERIAL

BODY, COUPLING NUT AND COILED SPRINGS _____ STAINLESS STEEL PER A 582, TYPE 303, COND. A

CONTACT & RETAINING RING _____ 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.

GASKET _____ SILICONE RUBBER PER ZZ-R-765

6. FINISH

BODY, COUPLING NUT AND COILED SPRINGS _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

CONTACT _____ 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.)

INSULATOR, RETAINING RING & GASKET _____ N/A