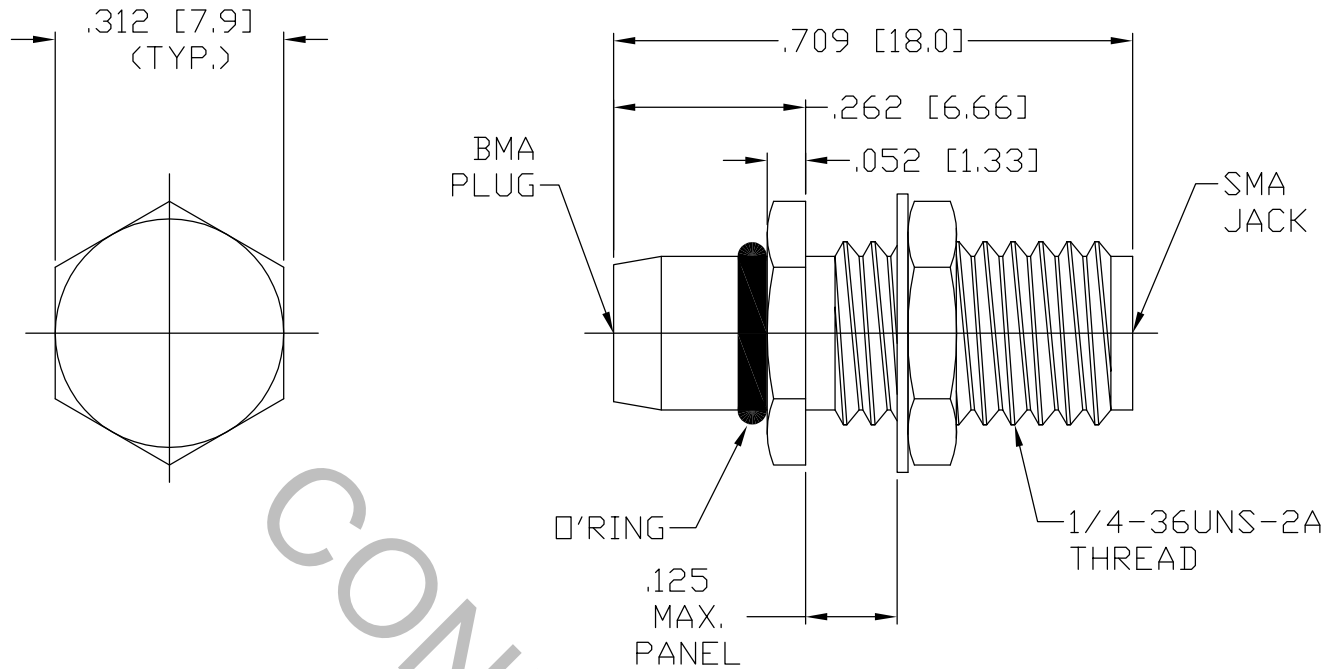


# SPECIFICATION CONTROL DRAWING




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			 HAVERHILL, MA 01835
AA	06-2014	8/18/06	TS	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1'0" X ° X' ± 15'	TITLE SMA, JACK BMA, PLUG, BULKHEAD ADAPTER
				DRAWN TS	DATE 8/18/06		
				APPROVED DC	DATE 8/18/06		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1110-2899-6201	

# 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 B196-90, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710
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