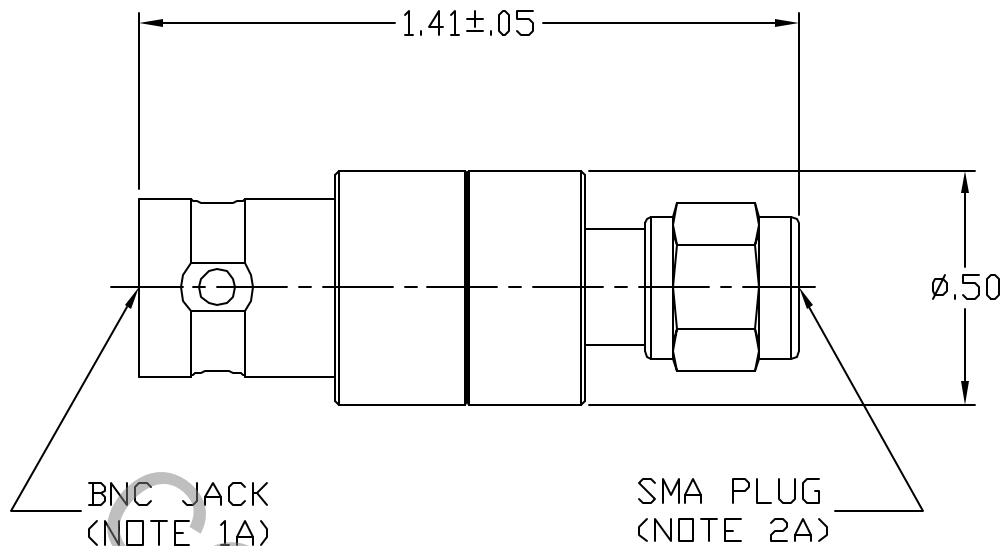


# SPECIFICATION CONTROL DRAWING



1. MATING
- 1A. INTERFACE DIMENSIONS PER MIL-STD-348-301.2 BNC SOCKET CONTACT.
  - 2A. INTERFACE DIMENSIONS PER MIL-STD-348-310.1 SMA PIN CONTACT.

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 8.0 GHz.
VSWR (MAX) *	1.25:1
INSERTION LOSS (dB MAX)	.040 dB x $\sqrt{FGHz}$ .
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	330
RF LEAKAGE (MIN. dB DOWN)	60 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)	4.5
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			HAVERHILL, MA. 01836
AA	03-2340	10/27/03	DC	DECIMALS $.X \pm .030$ $.XX \pm .010$ $.XXX \pm .005$	FRACTIONAL $\pm 1/84$	ANGULAR $X^{\circ} \pm 1'0"$ $X^{\circ} X' \pm 15'$	
				SURFACE ROUGHNESS 63 $\sqrt{MIL-STD 10}$ .			
				DRAWN DC	DATE 10/27/03	TITLE <b>BNC JACK TO SMA PLUG ADAPTER</b>	
				APPROVED DC	DATE 10/27/03		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-3198-6200	

# 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) \_\_\_\_\_ 48.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX IN. LBS.) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500

RECOMMENDED MATING TORQUE (SMA, JACK) \_\_\_\_\_ 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -85 °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 108, 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

SMA BODY AND COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A

BNC BODY \_\_\_\_\_ BRASS PER ASTM B16 TEMPER H02 ALLOY C36000.

CONTACT AND RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.

INSULATOR \_\_\_\_\_ TEFLON PER MIL-P-19463 AND L-P-403, TYPE 1.

GASKET \_\_\_\_\_ SILICON RUBBER PER ZZ-R-785, CLASS IIB, GRADE 50 OR 60.

## 6. FINISH

SMA BODY AND COUPLING NUT \_\_\_\_\_ PASSIVATE PER QQ-P-35A, TYPE 1.

BNC BODY \_\_\_\_\_ NICKEL PER QQ-N-290

CONTACT \_\_\_\_\_ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5  
(.000100 MIN.) OVER NICKEL PER QQ-N-290 OVER  
COPPER PER MIL-C-14660 (.000010 MIN. THK.)

GASKET AND RETAINING RING \_\_\_\_\_ N/A

INSULATOR \_\_\_\_\_ N/A