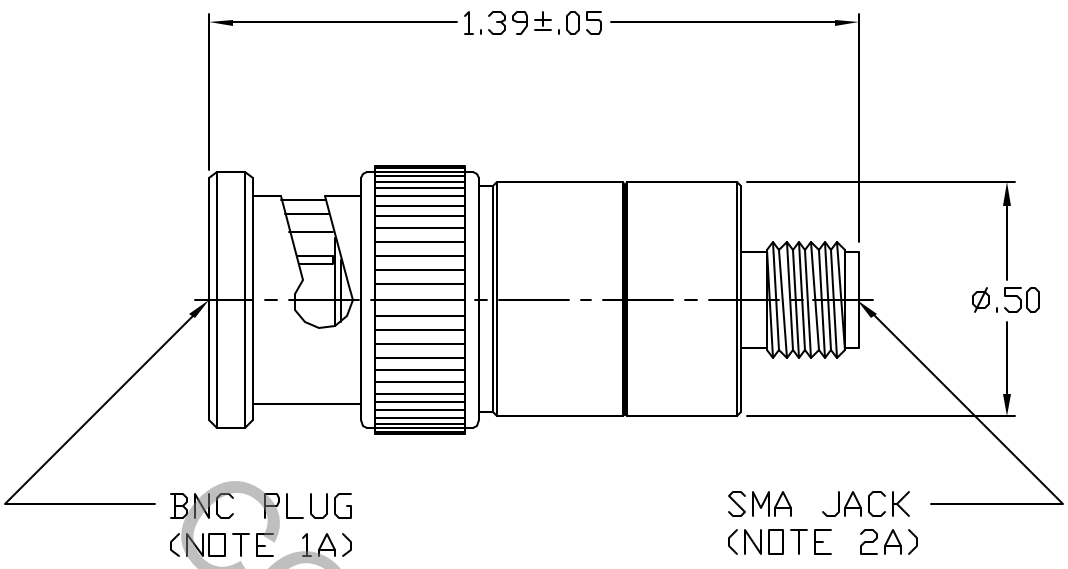
SPECIFICATION CONTROL DRAWING



1. MATING
   - 1A. INTERFACE DIMENSIONS PER MIL-STD-348-301.1 BNC PIN CONTACT.
   - 2A. INTERFACE DIMENSIONS PER MIL-STD-348-310.2 SMA SOCKET 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.
AA	03-2340	10/27/03	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	± 1/64	X° ±1°0' X.X ± 15'

SURFACE ROUGHNESS 63 ✓ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN DC DATE 10/27/03

APPROVED DC DATE 10/27/03

TITLE
BNC PLUG TO
SMA JACK ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1100-3099-6200

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 (–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

SMA BODY	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A
BNC BODY AND COUPLING NUT	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–19468 AND L–P–403, TYPE 1.
GASKET	SILICON RUBBER PER ZZ–R–765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

SMA BODY	PASSIVATE PER QQ–P–35A, TYPE 1.
BNC BODY AND COUPLING NUT	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–14550 (.000010 MIN. THK.)
GASKET AND RETAINING RING	N/A
INSULATOR	N/A