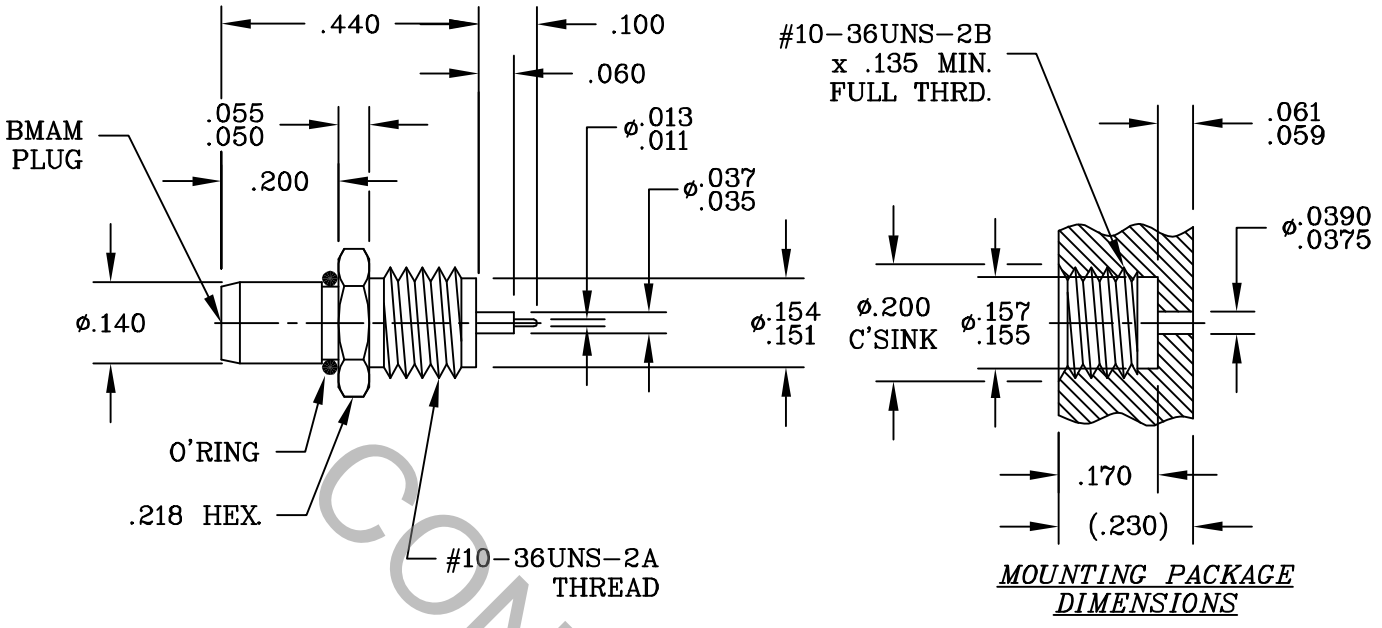
SPECIFICATION CONTROL DRAWING



MOUNTING PACKAGE DIMENSIONS

CONFIDENTIAL

1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 328.1
AND PER DYNAWAVE SPECIFICATION MD-26 (BMAM, PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 38.0 GHz.
VSWR (MAX.) ❋	1.10 + .009 x $\sqrt{FGHz}$
INSERTION LOSS (dB MAX.)	
• BMAM INTERFACE GAP (.000 to .010)	.035 dB x $\sqrt{FGHz}$
• BMAM INTERFACE GAP (.011 to .020)	.050 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• BMAM INTERFACE BOTTOMED (.000 GAP)	100 dB – FGHz
• BMAM INTERFACE GAP (.001 to .010)	90 dB – FGHz
• BMAM INTERFACE GAP (.016 to .020)	75 dB – FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	–65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	8.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ GATED TEST DATA

REV.	DCN NO.	DATE	APP.
AA	05-1602	5/18/05	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 5/18/05

APPROVED DC DATE 5/18/05

TITLE
BMAM, PLUG
STRAIGHT TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2630-0031-6260

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT and GLASS PIN

- MIN. AXIAL FORCE (BOTH) ——— 4.5 LBS.
- MIN. RADIAL TORQUE (GLASS PIN) ——— N/A

BMAM ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) ——— 48.0
- WITHDRAWAL (MIN. OUNCES) ——— 4.0

BMAM DURABILITY (MIN. MATING) ——— 1,000

RECOMMENDED MATING FORCES

- MIC PACKAGE (TORQUE) ——— 16– 20 IN. LBS.
- MATING JACK CONNECTOR (INSERTION FORCE) ——— 3 LBS. MAXIMUM

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 200 °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.) (190 VRMS)

CONFIDENTIAL

5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 581, FREE MACHINING, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D1710
O'RING	SILICONE RUBBER PER ZZ–R–765, CLASS 2B GRADE 50 OR 60.

6. FINISH

CONNECTOR BODY	PASSIVATE PER AMS QQ–P–35, TYPE 2
CENTER CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL PER QQ–N–290 (.000050 Minimum Thickness) OVER COPPER per MIL–C–14550 (.000010 Minimum Thickess).
INSULATOR AND O'RING	N/A