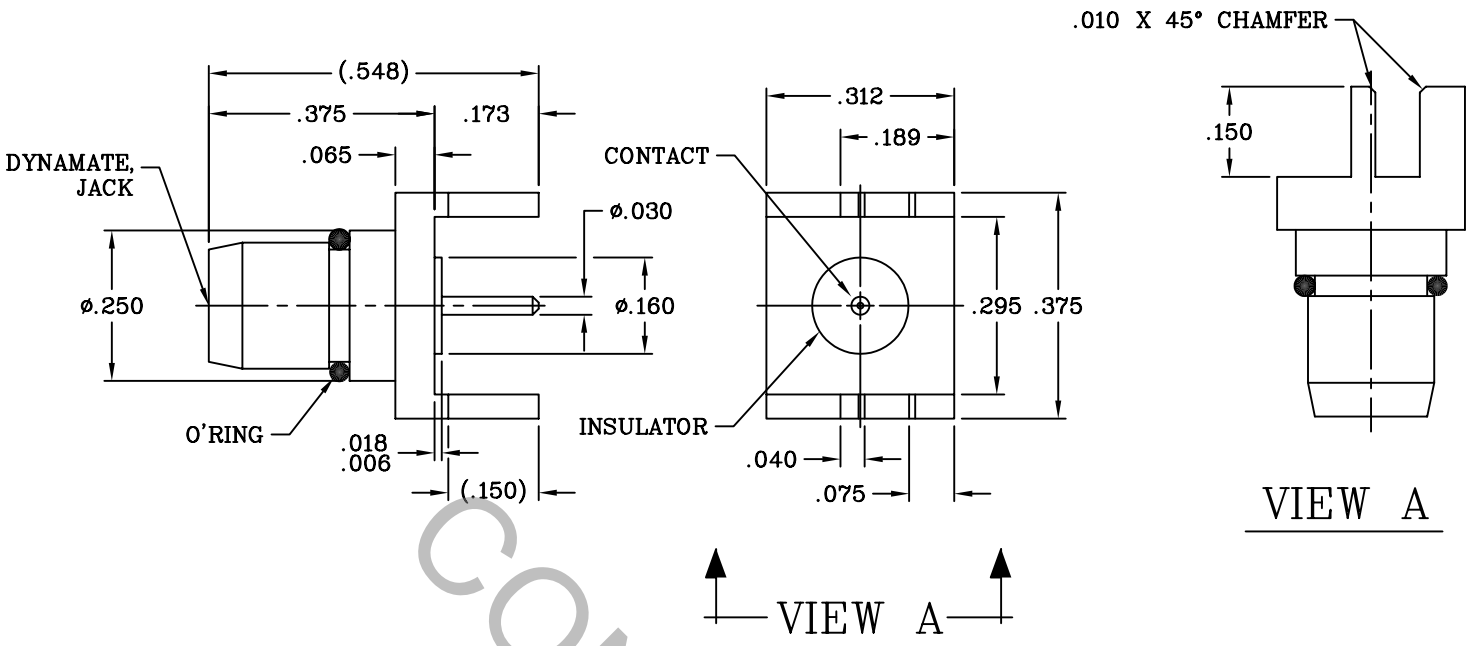
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 321.1 (BMA, PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 4.0 GHz.
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• DYNAMATE INTERFACE GAP (.000 TO .010)	.035 dB x $\sqrt{\text{FGHz}}$
• DYNAMATE INTERFACE GAP (.011 TO .030)	.050 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• DYNAMATE INTERFACE BOTTOMED (.000 GAP)	100 dB – FGHz
• DYNAMATE INTERFACE GAP (.001 TO .010)	80 dB – FGHz
• DYNAMATE INTERFACE GAP (.011 TO .030)	60 dB – FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 150°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	06-1835	7/13/06	TS

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 TS DATE 7/13/06

APPROVED DATE

TITLE
BMA, PLUG
P.C. BOARD EDGE MOUNT

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2820-0031-6424

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 6.0 LBS.
- MIN. RADIAL TORQUE — N/A

DYNAMATE ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

DYNAMATE DURABILITY (MIN. MATING) — 1,000

RECOMMENDED MATING TORQUE — N/A

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)

5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196, CU ALLOY UNS C17300 TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710
O'RING	NITRILE (BUNA–N)

6. FINISH

CONNECTOR BODY	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1,25 (.000050 MIN. THK.) OVER NICKEL PER QQ–N–290, (00015 MIN. THK.) OVER COPPER PER MIL–C–14550
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5 (.000100 MINIMUM THICKNESS) OVER NICKEL PER QQ–N–290, CLASS 1 (.000050 MINIMUM THICKNESS) OVER COPPER PER MIL–C–14550
INSULATOR AND O'RING	N/A