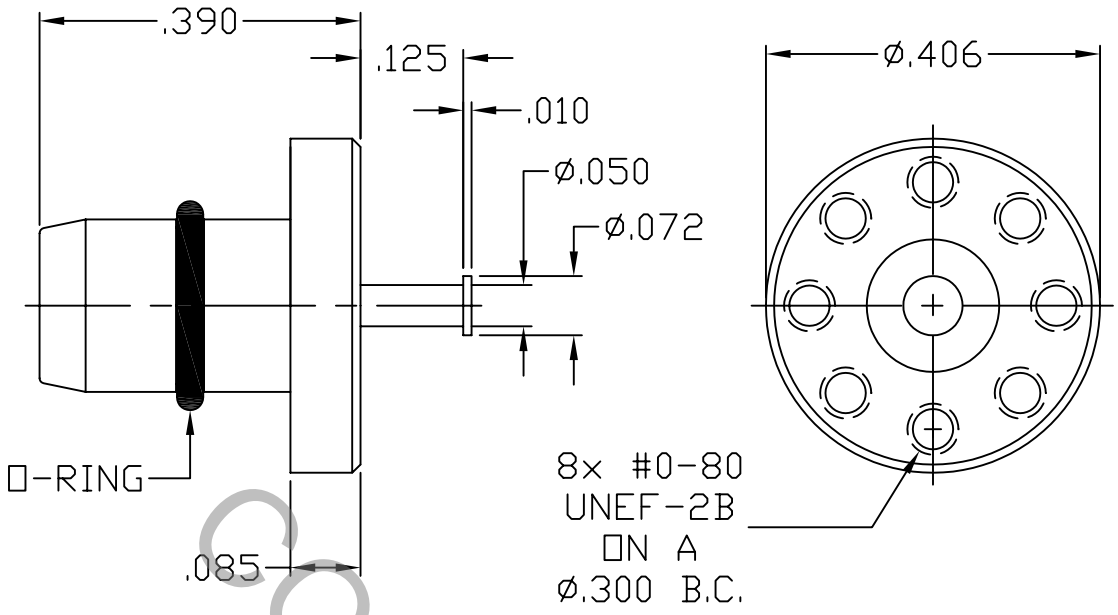
SPECIFICATION CONTROL DRAWING



NOTE: THE CONTACT IS SHIPPED LOOSE IN THE CONNECTOR BAG.

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1. MATING

INTERFACE DIMENSIONS MIL-STD-348 Fig. 321.1 (BMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❋	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	−100 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)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
–	771	10/90	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 10/90

APPROVED DGG DATE 10/90

TITLE BMA PLUG, SURFACE LAUNCH NON CAPTURED CONTACT TURRET TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2880-0031-6225

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX.AXIAL FORCE — N/A
- MAX. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — N/A

CONNECTOR DURABILITY (MIN. CYCLES) — 1000

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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

BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A.
CONTACT	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 4894–91.
O–RING	NITRILE (BUNA–N) PER MIL–P–25732

6. FINISH

BODY	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	N/A