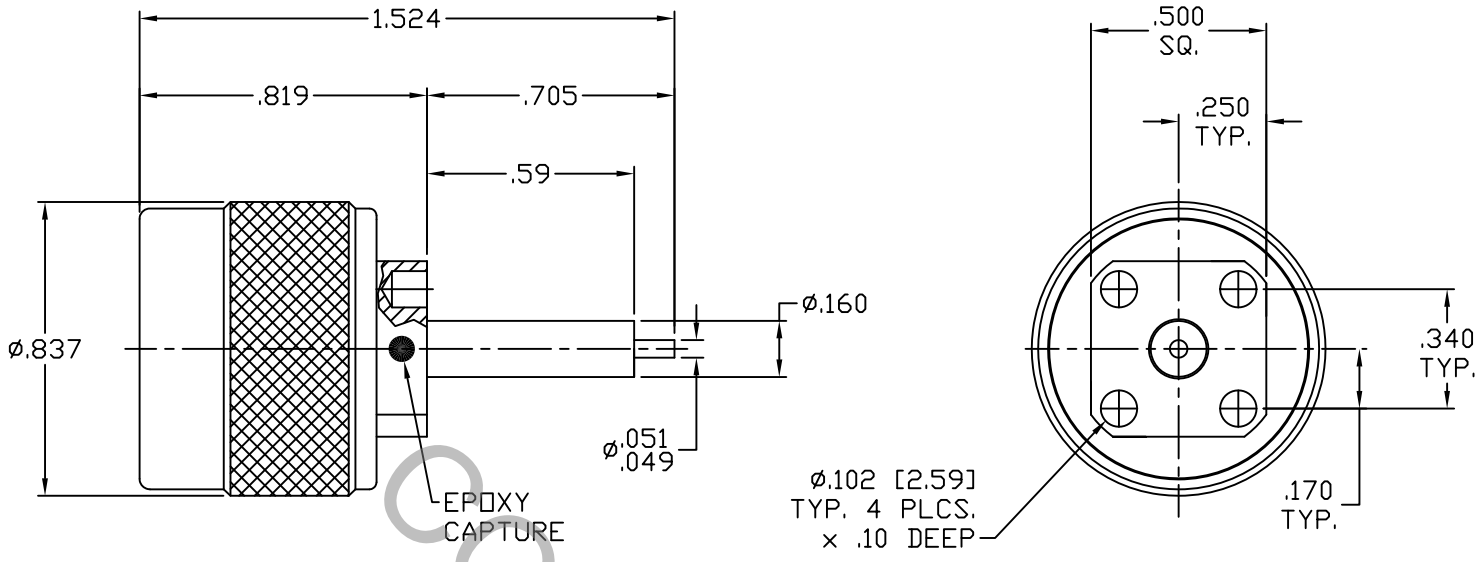
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER TYPE "N" PLUG PER MIL-STD-348 Fig. 304.1 WITH SOLID OUTER.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.06 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	750
RF LEAKAGE (MIN. dB DOWN)	−85 dB − FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• OUTER CONTACT (MAX. MILLIOHMS)	3.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	16-1132	2/2/16	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 2/2/16

APPROVED DC DATE 2/2/16

TITLE
TYPE "N", PLUG
4 HOLE SQ. FLANGE
STRAIGHT TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 7454-0032-2141

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	6.0 LBS.
MAX. RADIAL TORQUE	4.0 IN./OZ.
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	N/A
● WITHDRAWAL (MIN. OUNCES)	N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500

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.) (625 VRMS)

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5. MATERIAL

BODY AND COUPLING NUT	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
CONTACT AND RETAINING RING	BERYLLIUM COPPER PER ASTM B196/b, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
GASKET	SILICONE RUBBER PER ZZ–R–765 CLASS IIB, GRADE 50 OR 60

6. FINISH

BODY AND COUPLING NUT	TRI–METAL ALLOY COMPRISED OF 55% – 60 COPPER, 25% – 28% TIN AND 14% – 18% ZINC.
CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATOR, GASKET AND RETAINING RING	N/A