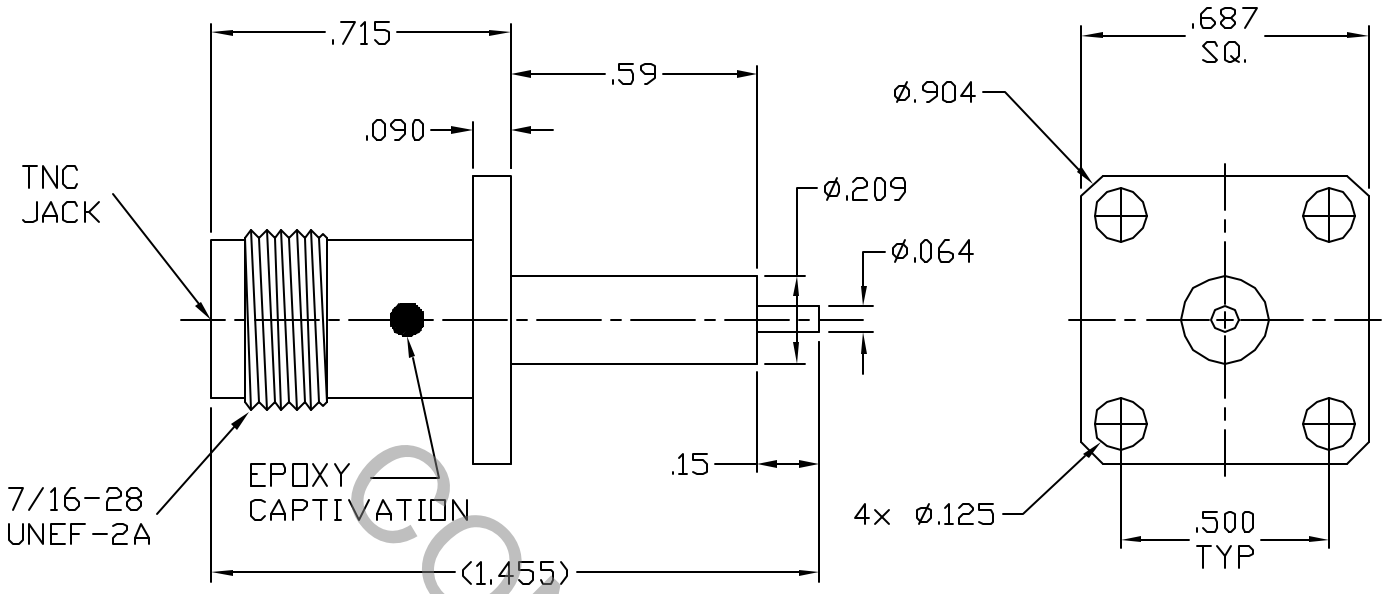
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A-313.2 (TNC JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 11.0 GHz.
VSWR (MAX.) ❁	1.05 + .007 x FGHz.
INSERTION LOSS (dB MAX.)	.04 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	100 dB – FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	–65°c TO +165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1500
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❁ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	03-2326	10/23/03	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 10/23/03

APPROVED DC DATE 10/23/03

TITLE TNC JACK, 4 HOLE FLANGE EXTENDED DIELECTRIC AND TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 8354-0032-6250

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) — INTERFACE 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 2.0

CONNECTOR ENGAGEMENT & DISENGAGEMENT (MAX. IN. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — 15 TO 20 INCH LBS.

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 (96 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL–STD–202, METHOD 105, COND. C (70,000 FT.) (250 VRMS)

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5. MATERIAL

BODY	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER ASTM B196, COPPER ALLOY UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER MIL–P–19468 AND L–P–403, TYPE I

6. FINISH

BODY	PASSIVATE PER QQ–P–35 TYPE 1
CONTACT	GOLD PER ATSM 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 AND GASKET	N/A