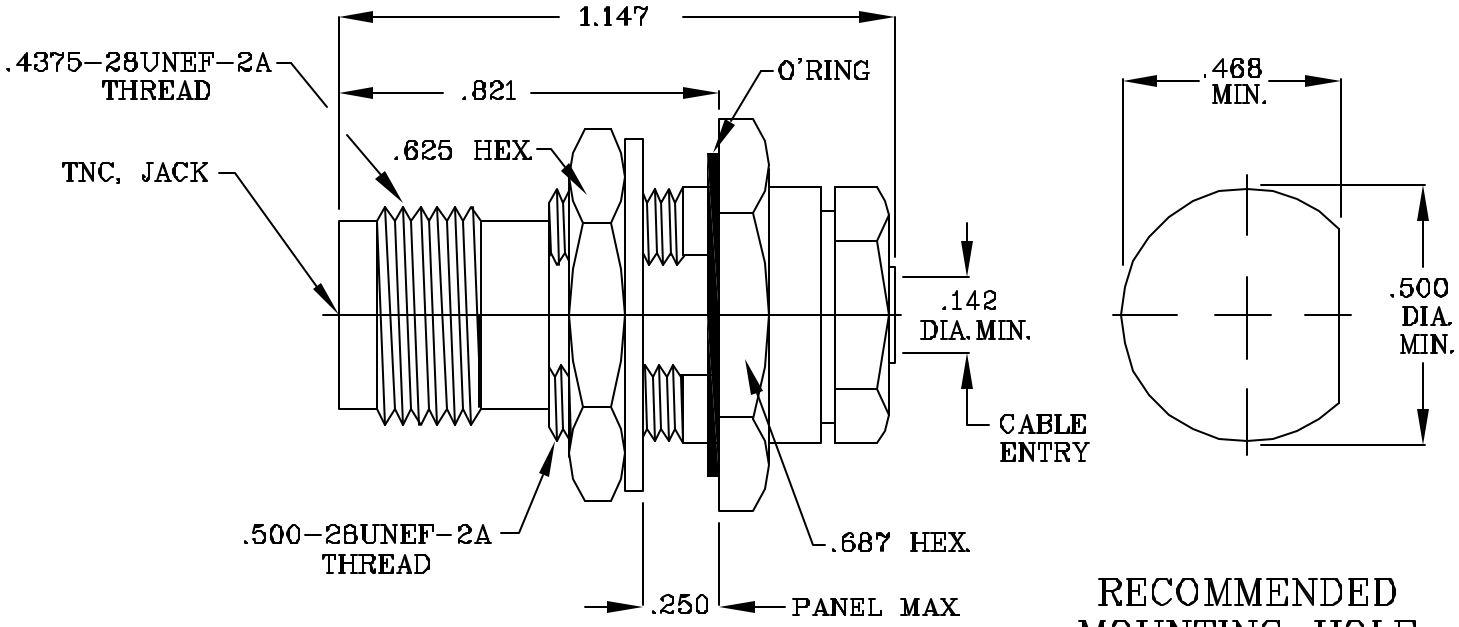
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL–STD–348A (Fig. 313.4) ETNC, JACK AND DYNAWAVE SPECIFICATION MD–85 (KTNC 18 GHz.)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❁	1.05 + .007 x FGHz.
INSERTION LOSS (dB MAX.) ❁	.035 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	100 dB – FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	–65° c TO +200° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.5
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❁ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
–	1120	10/94	T.S.
AA	03–1603	5/7/03	T.S.
AB	03–2141	9/5/03	DC

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL ±1/64
ANGULAR X° ±1°, X° ±15'
SURFACE ROUGHNESS 63 √ MIL–STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN T.S. DATE 10/94
APPROVED T.S. DATE 10/94

CODE IDENT. 2J899
SHEET 1 OF 2

TITLE KTNC, JACK BULKHEAD MOUNT DIRECT SOLDER TO .141 SEMI–RIGID CABLE

DWG. NO. 8510–4121–6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	6.0 LBS.
• MIN. RADIAL TORQUE	4.0 IN.OZ.
CENTER CONTACT AXIAL FORCES	
• INSERTION (MAX. OUNCES)	24.0
• WITHDRAWAL (MIN. OUNCES)	2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	1,000
RECOMMENDED MATING TORQUE	
INTERFACE	30 TO 35 IN. 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 (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL–STD–202, METHOD 105, COND. C (70,000 FT.) (375 VRMS)

5. MATERIAL

CONNECTOR BODY, LOCKWASHER, LOCKNUT AND CABLE BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91
O'RING	E740–75

6. FINISH

CONNECTOR BODY, LOCKWASHER AND LOCKNUT	PASSIVATE PER QQ–P–35D, TYPE II
CABLE BODY	GOLD PER ASTM B 488, TYPE I, GRADE C, CLASS 1 OVER NICKEL PER QQ–N–290, CLASS 1.
CENTER CONTACT	GOLD PER ASTM B 488, TYPE II, GRADE C, CLASS 2 (.000010 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.00010 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.)
INSULATOR AND O'RING	N/A