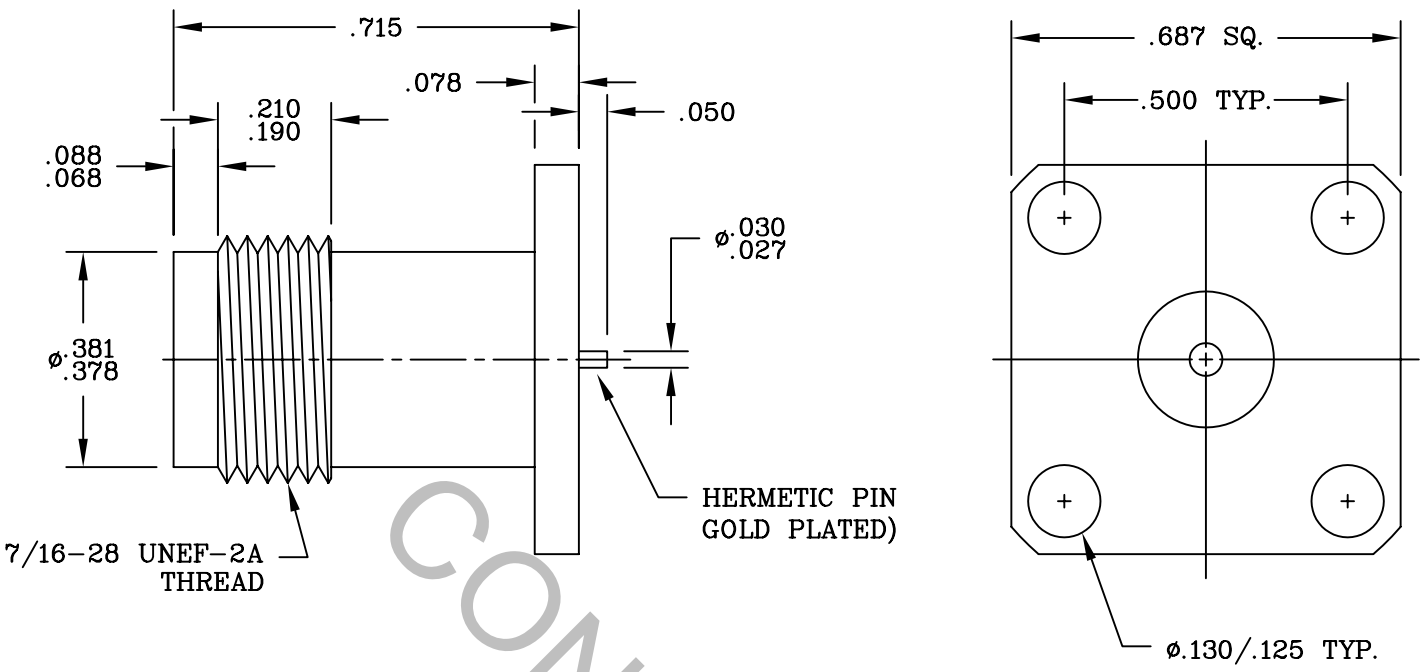
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSION PER MIL-STD-348A FIG. 313.2 (TNC, JACK) AND DYNAWAVE MD-85 (KTNC 18 GHz)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 15.0 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)	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.5
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
-	725	12/89	C.M.
AA	06-2082	8/30/06	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 C.D.M. DATE 12/89

APPROVED TS DATE 12/89

TITLE
KTNC, JACK
4 HOLE FLANGE,
HERMETIC SEAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 8554-0431-6828

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MAX. AXIAL FORCE — 6.0 LBS.
- MAX. RADIAL TORQUE — 2.0 IN. OZ.

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) — INTERFACE 24.0 ; REAR 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 2.0 ; REAR 2.0

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

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — 30 TO 35 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 (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE)	MIL–STD–202, METHOD 105, COND. C (70,000 FT.) (375 VRMS)
LEAK RATE	1 X 10^{-9} cc/sec

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5. MATERIAL

BODY	STAINLESS STEEL PER ASTM 581, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER ASTM B196, COPPER ALLOY UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710.
GLASS PIN	KOVAR
GLASS	CORNING 7070 OR EQUIVALENT

6. FINISH

BODY	NICKEL PER QQ–N–290
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.).
GLASS PIN	GOLD (.000050/.000100 THK.) OVER NICKEL (.0001 MIN. THK.).
INSULATOR	N/A