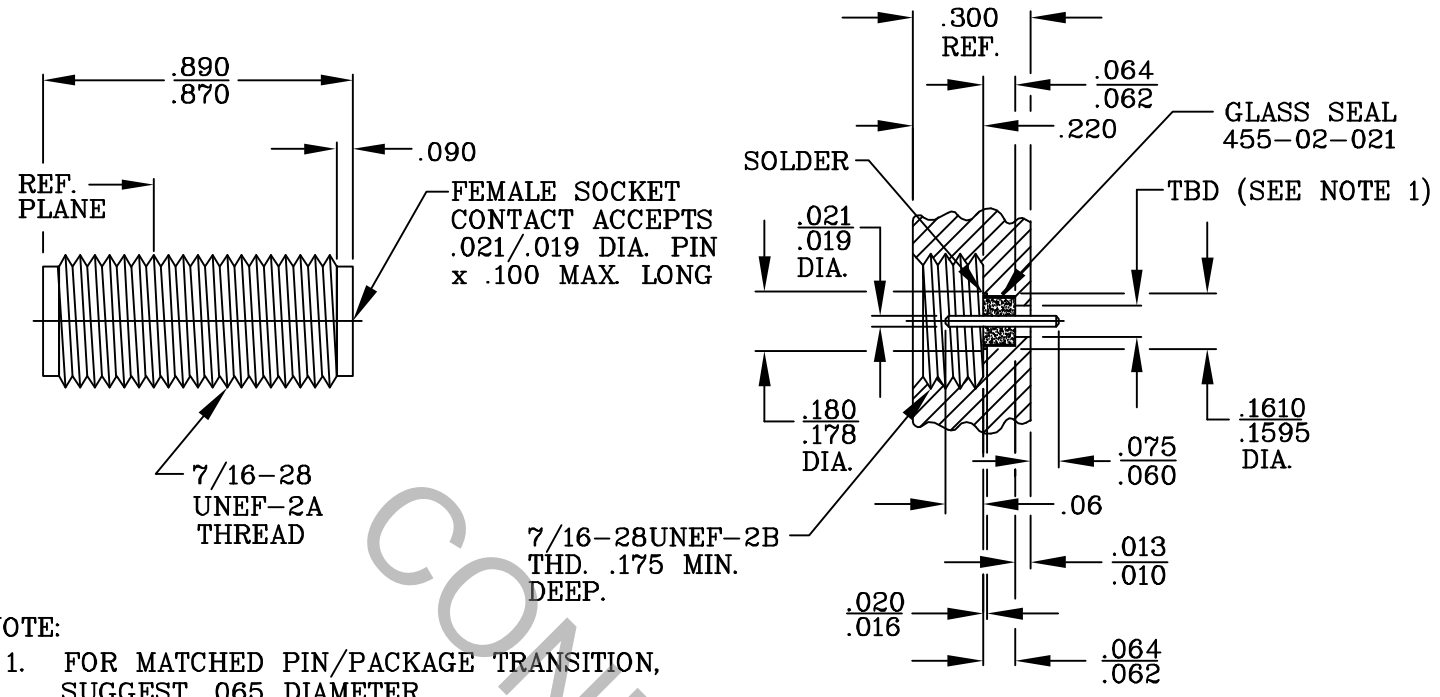
# SPECIFICATION CONTROL DRAWING




NOTE:
1. FOR MATCHED PIN/PACKAGE TRANSITION, SUGGEST .065 DIAMETER.

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## 1. MATING

INTERFACE DIMENSIONS FOR TNC JACK per MIL-STD-348 (Fig. 313-2) AND DYNAWAVE DRAWING MD-85 (KTNC 18 GHz).

## 2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 18 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) | 4.5 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

❋ TERMINATED IN A 50 OHM LOAD

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| – | 008 | 6/85 | DGG |
| A | 441 | 8/87 | DGG |
| B | 608 | 11/88 | DGG |
| BA | 98-1020 | 12/18/98 | GL |
| BB | 02-0070 | 1/31/02 | BN |
| BC | 02-0994 | 11/19/02 | DGG |
| | | | |

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X °±1 0', X °X' ±15'

DRAWN T.S. DATE 6/85

APPROVED DGG DATE 6/85

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL MA. 01835

TITLE
KTNC JACK, SCREW-IN MIC. PACKAGE

DWG. NO. 8530-0081-6220

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

| | |
|---|---|
| CAPTIVATION–CENTER CONTACT | |
| MAX. AXIAL FORCE | 6.0 LBS. |
| MAX. RADIAL TORQUE | N/A |
| CENTER CONTACT AXIAL FORCES | |
| • INSERTION (MAX. OUNCES) | INTERFACE 24.0; REAR 40.0 |
| • WITHDRAWAL (MIN. OUNCES) | INTERFACE 2.0; REAR 1.0 |
| 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 ) |

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## 5. MATERIAL

| | |
|---|---|
| BODY | STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A |
| CONTACT | BERYLLIUM COPPER PER QQ–C–530, ALLOY 173, COND. H.T. |
| INSULATOR | TEFLON PER MIL–P–19468, AND L–P–403, TYPE I |

## 6. FINISH

| | |
|---|---|
| BODY | PASSIVATE PER AMS QQ–P–35, TYPE 2 |
| CONTACT | GOLD PER ATSM 488, TYPE I, CODE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ–N–290 (.000050 Minimum Thickness) OVER COPPER per MIL–C–14550 (.000010 Minimum Thickess). |
| INSULATOR | N/A |