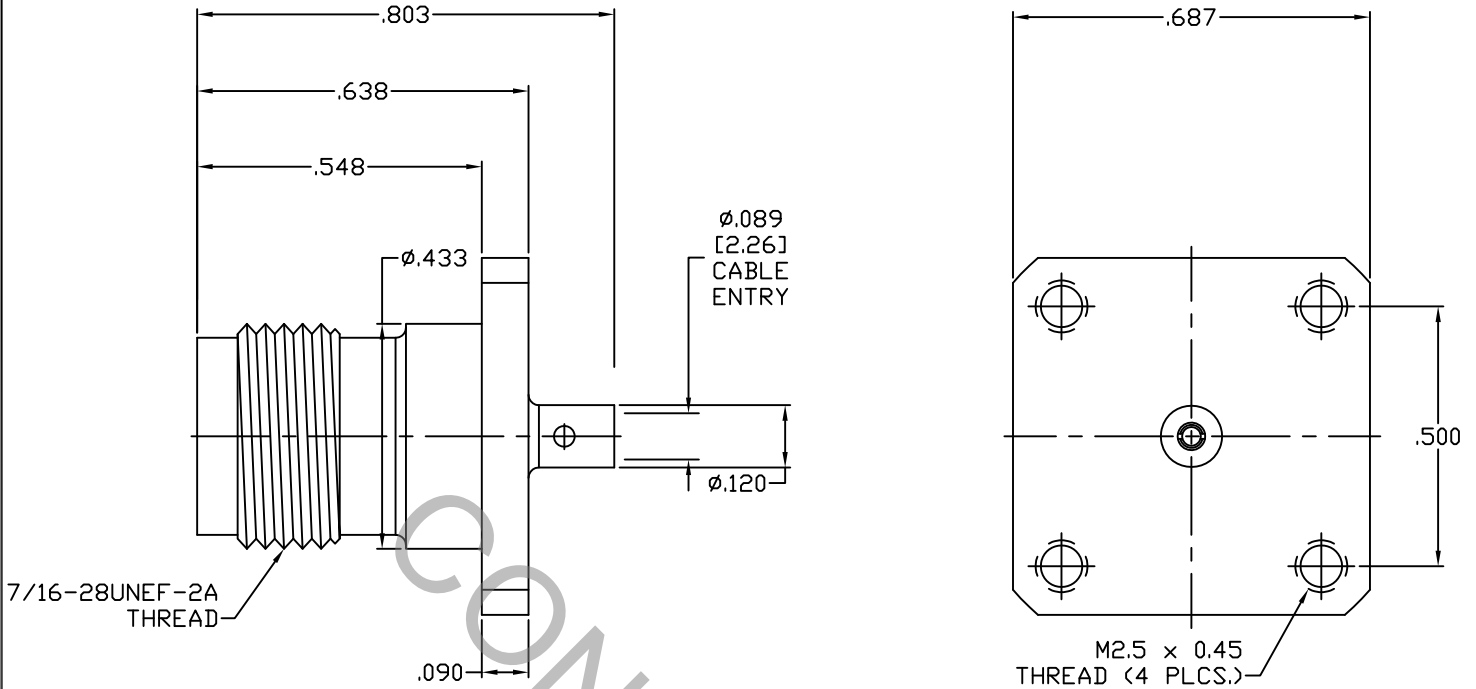


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 313.2 (TNC JACK).

2. ELECTRICAL

| | |
|---|-------------------------------|
| FREQUENCY RANGE GHz | DC TO 18.0 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) | 250 |
| RF LEAKAGE (MIN. dB DOWN) | -100 dB - FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | -65°C TO + 165°C |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 750 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 5,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | HAVERHILL, MA 01835 |
|------|---------|--------|------|--|--------------|-----------------------------|---|
| AA | 18-1008 | 1/2/18 | TS | DECIMALS | FRACTIONAL | ANGULAR | |
| | | | | .X ± .030 .XX ± .010 .XXX ± .005 | ± 1/64 | X ° ± 1° 0' X ° X' ± 15' | TITLE KTNC, JACK 4 HOLE FLANGE DIRECT SOLDER TO Ø.085 SEMI-RIGID CABLE (CAPTURED CENTER CONTACT) |
| | | | | DRAWN TS | DATE | 1/2/18 | |
| | | | | APPROVED DC | DATE | 1/2/18 | |
| | | | | CODE IDENT. 2J899 | SHEET 1 OF 2 | | DWG. NO. 8554-8521-2701 |

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 32.0

● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 10 - 15 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65° c TO + 165° 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.) (250 VRMS)

5. MATERIAL

BODY _____ STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A

CONTACT _____ 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.

6. FINISH

BODY _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL per QQ-N-290 (.000150 MIN. THK.) OVER COPPER per MIL-C-14550 (.000010 MIN. THK.)

CONTACT _____ GOLD PER ASTM-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 _____ N/A