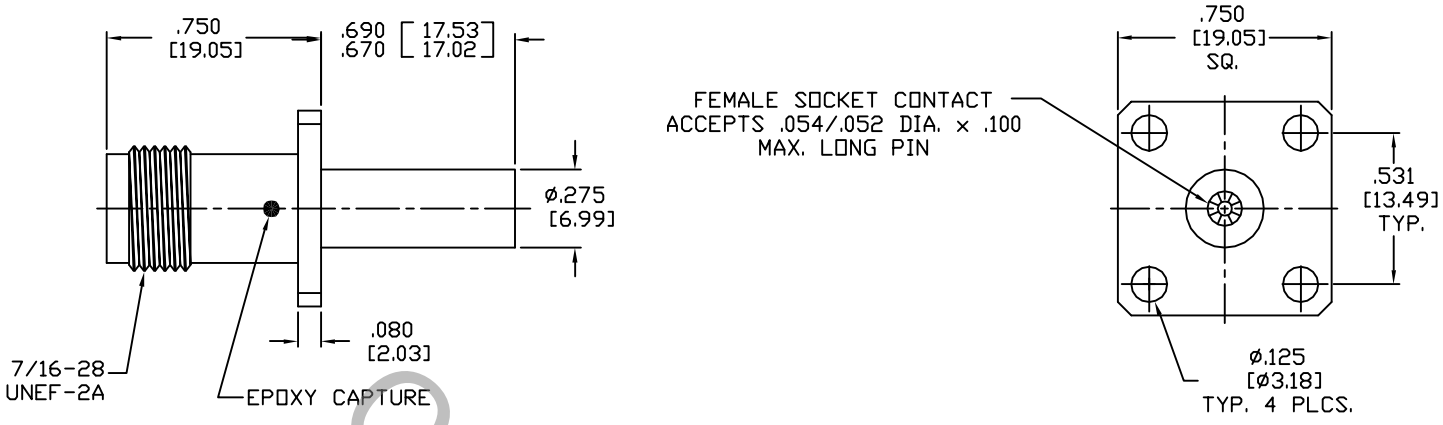
# SPECIFICATION CONTROL DRAWING

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## 1. MATING

INTERFACE DIMENSIONS MIL-STD-348 Fig. 313.2 (TNC, JACK).

## 2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 14.5 GHz |
| VSWR (MAX.) ❋ | 1.05 + .020 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) | −80 dB − FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | −65°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 1,500 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 5,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 8.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

❋ TERMINATED IN A 50 OHM LOAD

| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 06-2534 | 12/14/06 | TS |
| AB | 07-1028 | 1/10/07 | TS |
| AC | 07-1038 | 1/11/07 | TS |
| AD | 07-1045 | 1/12/07 | DC |
| | | | |
| | | | |
| | | | |

DIMENSIONS ARE IN INCHES
TOLERANCES

| DECIMALS | FRACTIONAL | ANGULAR |
|---|---|---|
| .X ±.030<br>.XX ±.010<br>.XXX ±.005 | ± 1/64 | X °±1°0'<br>X ° X' ± 15' |

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HAVERHILL, MA 01835

DRAWN TS DATE 12/14/06

APPROVED DC DATE 12/14/06

TITLE
TNC, JACK
4 HOLE FLANGE
FIELD REPLACEABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 8554-0082-6201

# 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, 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 – 35 IN./LBS. |

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## 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. ) ( 375 VRMS ) |

## 5. MATERIAL

| | |
|---|---|
| BODY | STAINLESS STEEL PER ASTM A581, 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 | PASSIVATE PER AMS QQ–P–35, TYPE 2 |
| CONTACT | GOLD PER ASTM B 488, TYPE II, 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 |