AF 28003

# 4080-0176

*NOTES:*

1. *MATING:* *Interface dimensions per Mil-C-39012/TNC Series And Solitron/Microwave MD-108.*

2. *MATERIALS:*

   *BODY AND PRESS SLEEVE..Brass per QQ-B-626, ½ Hard, Alloy 360.*

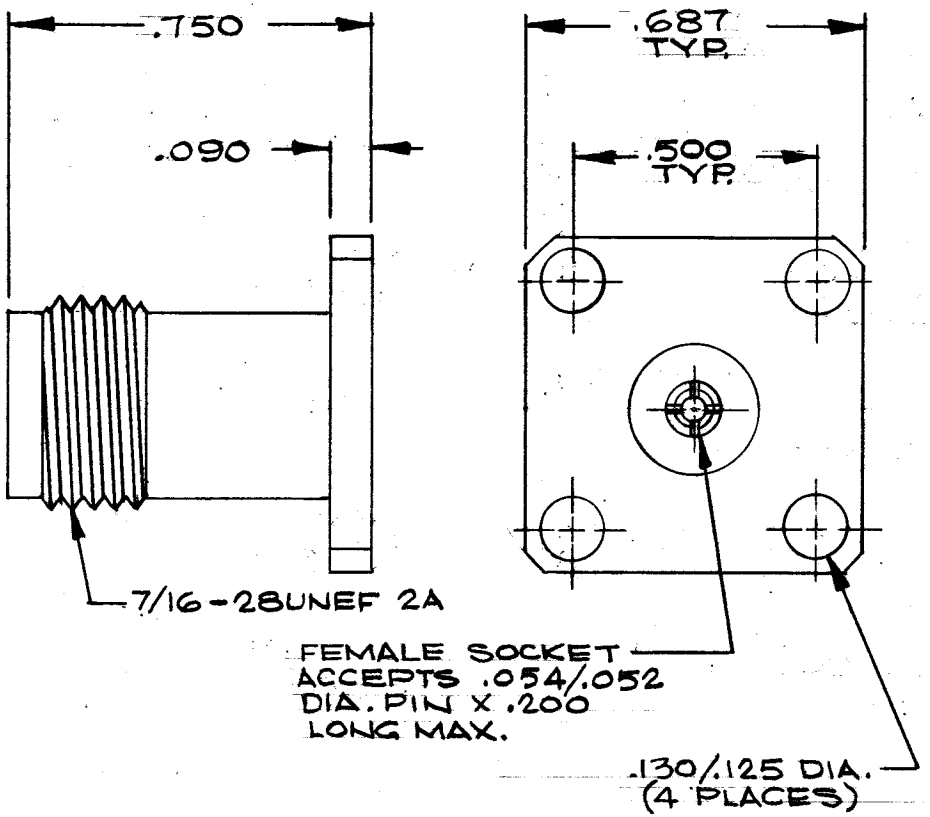
   *CONTACT.....Beryllium Copper per QQ-C-530, Cond. H., Alloy 173.*

   *INSULATOR.....Teflon Per Mil-P-19468 & L-P-403, Type 1.*

3. *FINISH:*

   *BODY AND PRESS SLEEVE..Brite Nickel.*

   *CONTACT.....Gold per Mil-G-45204, Type I, Grade C, Class 2; over Copper per Mil-C-14550, Class 4.*




| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| — | REL. DCN F-10148 | 9/85 | |

UNLESS OTHERWISE SPECIFIED
1. ALL DIMENSIONS ARE AFTER PLATING
2. BREAK ALL CORNERS & EDGES .005 R MAX.
3. CHAMFER 1ST & LAST THREADS 45°
4. SURFACE ROUGHNESS 63 ✓ MIL-STD-10
5. DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN — T.I.R.
6. REMOVE ALL BURRS

DIMENSIONS ARE IN INCHES
TOLERANCES

| DECIMALS | FRACTIONAL | ANGULAR |
|---|---|---|
| .X ± .030 | ± 1/64 | X° ± 1°0' |
| .XX ± .015 | | |
| .XXX ± .005 | | X°X' ± 15' |

DRAWN R.P.A. DATE 9-6-85
CHECKED [signature] DATE 9-85
APPROVED [signature] DATE 9-85

**SOLITRON / MICROWAVE**
PORT SALERNO, FLORIDA

MATERIAL —

FINISH —

AREA —

REF. ENGINEERING DATA DRAWING

TITLE
TNC JACK, 4-HOLE FLANGE MNT WITH CAPTIVE FEMALE SOCKET

| SCALE | CODE IDENT. NO. | SIZE | DRAWING NO. |
|---|---|---|---|
| — | 95077 | A | 4080-0176 SHEET 1 OF 2 |

**ENG. FILE COPY** S/M DESIGN STANDARDS

DRAWING NO. 4080-0176

| REQUIREMENTS | RATINGS |
|---|---|
| Nominal Impedance (ohms) | 50 |
| Frequency Range (ghz) | DC - 15.0 |
| Voltage Rating (max. vrms) | 500 |
| Temperature Rating (degrees centigrade) | $-65^{o}$ to $+165^{0}$ |
| VSWR (max.) * | 1.07 + .007 xFGHz |
| Insertion Loss (dB max.) | .04 $x\sqrt{FGHz}$ |
| RF Leakage (min. dB down) | 100 dB-FGHz |
| RF High Potential (max. vrms) | 1000 at 5MHz |
| Dielectric Withstanding Voltage (max. vrms) | 1500 |
| Insulation Resistance (min. megohms) | 5000 |
| Contact Resistance:<br>Center Contact (max. milliohms)<br>Outer Contact (max. milliohms) | <br>1.5<br>.2 |
| Center Contact Axial Forces:<br>Insertion (max. ounces)<br>Withdrawal (min. ounces) | <br>24<br>2 |
| Connector Durability (min. cycles) | 500 |
| Connector Engagement & Disengagement (max. inch lbs.) | 2.0 |

| REQUIREMENTS | RATINGS |
|---|---|
| Vibration | MIL-STD-202<br>Method 204<br>Cond. D (20G's) |
| Shock | MIL-STD-202<br>Method 213<br>Cond. I (100G's) |
| Temperature Cycling | MIL-STD-202<br>Method 107 - Cond. B<br>(-65°C to + 200 ° C) |
| Corrosion | MIL-STD-202<br>Method 101<br>Cond. B (48 Hrs.) |
| Moisture Resistance | MIL-STD-202<br>Method 106<br>Less Step 7b |
| Barometric Pressure (Altitude) | MIL-STD-202<br>Method 105 - Cond. C<br>(70,000 ft) ( 375 vrms) |
| | |
| *CAPTIVATION:*<br>*Center Contact*<br>*(Min. Axial Force).* | *6 lbs.* |

REMARKS: 1) Recommended Mating Torque: *30 - 35 inch pounds.*

*) *When properly terminated in a 50 OHM load.*

TITLE: TNC JACK, 4-HOLE FLANGE M'NT WITH CAPTIVE FEMALE SOCKET

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

SHT. 2 of 2

DRAWING NO. 4080-0176

REV. -

# Mouser Electronics

Authorized Distributor

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Amphenol:
4080-0176