

NOTES:

1. MATING:

Mating end dimensions per Mil-C-39012/TNC Series and Solitron/Microwave MD-108.

2. MATERIALS:

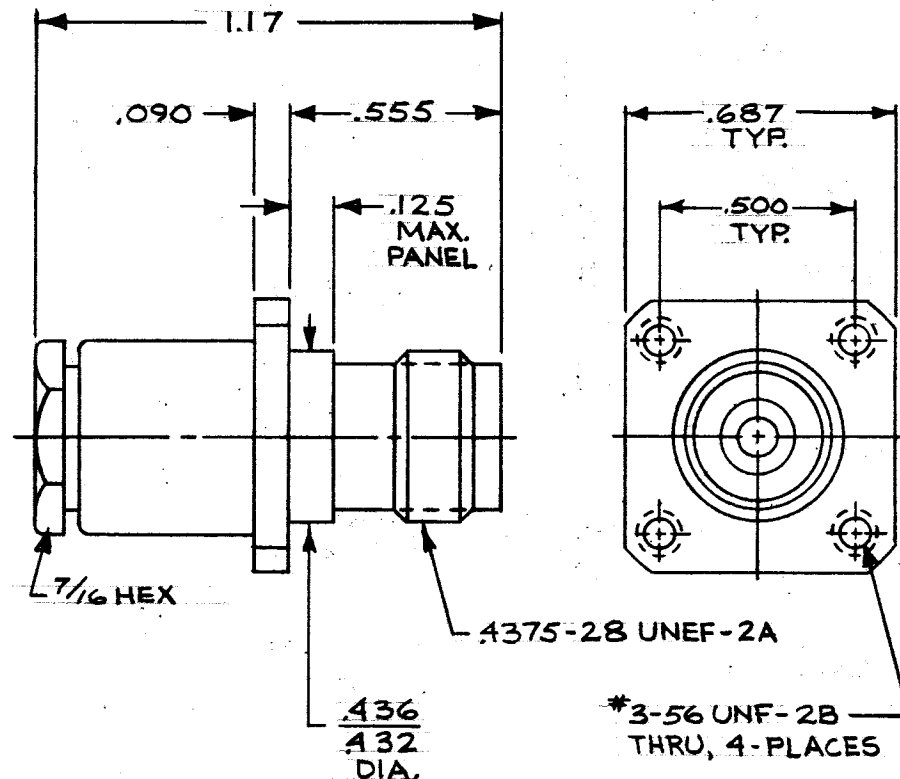
All Metal parts except Contact: Brass per QQ-B-626, Comp. 22.
 Contact: Beryllium Copper per QQ-C-530, Cond. HT.
 Dielectric: Teflon per Mil-P-19468.
 Gasket: Silicone Rubber per ZZ-R-765, Class IIB, Grade 50-60.

3. FINISH:

All metal parts except Contact: Nickel per QQ-N-290, Class 2.
 Contact: Gold per Mil-G-45204, Type II, Class 2; over Copper per Mil-C-14550, Class 4.

4. Accommodates RG 174, 179B, 187A, 188A, 316/U Cables.

5. Cable/Connector Assembly Instructions per Solitron/Microwave Drawing 300-80-013.



| | | | | | | | |
|-----|----------------|------|-------|--|--|---|--------------|
| SYM | DESCRIPTION | DATE | APPR. | UNLESS OTHERWISE SPECIFIED 1. REMOVE ALL BURRS 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. ALL DIMENSIONS ARE AFTER PLATING | SOLITRON/MICROWAVE PORT SALERNO, FLORIDA | MIL-C-39012/29-0018 | |
| — | REL. DCNF-6591 | 7/78 | DGG | | | ENGINEERING DATA DRAWING | |
| | | | | DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONAL ANGULAR .X ± .030 X' ± 1'0" .XX ± .015 ± 1/64 .XXX ± .005 X'X' ± 15' | MATERIAL | TITLE | |
| | | | | | FINISH | TNC, JACK, PANEL MOUNT CAPTIVATED CONTACT | |
| | | | | DRAWN RPRAT DATE 7-22-78 | SCALE | CODE IDENT. NO. | DRAWING NO. |
| | | | | CHECKED DATE | — | 95077 | 4044-0055 |
| | | | | APPROVED DGG DATE 7/24/78 | | A | SHEET 1 OF 2 |

ENG FILE COPY

"DESIGN CRITERIA"

4044-0055

| REQUIREMENT | RATING | REQUIREMENT | RATING |
|---|-----------------|--------------------------------|--|
| Nominal Impedance | 50 | Vibration | MIL-STD-202 method 204 Cond. D (20G's) |
| Frequency Range (ghz) | DC-15.0 | Shock | MIL-STD-202 method 213 Cond. I (100G's) |
| Voltage Rating (max. vrms) | 500 | Temperature Cycling | MIL-STD-202 method 102 - Cond. C (-65°C To +200°C) |
| Temperature Rating (degrees centigrade) | -65 To +165 | Corrosion | MIL-STD-202 method 101 Cond. B (48 hrs.) |
| VSWR (max.) | DC-11.0 GHz | Moisture Resistance | MIL-STD-202 method 101 less step 7b |
| | 11.1 - 15.0 GHz | | |
| Insertion Loss (dB max.) | .05 x FGHz | Barometric Pressure (Altitude) | MIL-STD-202 method 105 Cond. C (70,000 ft.) (375 vrms) |
| RF Leakage (min. dB down) | 100 dB-FGHz | Captivation Center Contact | 6 Lbs. Min. Axial Force |
| RF High Potential (max. vrms) | 1000 AT 5MHz | | |
| Dielectric Withstanding Voltage (max. vrms) | 1500 | | |
| Insulation Resistance (min. megohms) | 5000 | | |
| Contact Resistance | | | |
| Center Contact (max. milliohms) | 1.5 | | |
| Outer Contact (max. milliohms) | 0.2 | | |
| Center Contact Axial Forces | | | |
| Insertion (max. ounces) | 24.0 | | |
| Withdrawal (min. ounces) | 2.0 | | |
| Connector Durability (min. cycles) | 500 | | |
| Connector Engagement & Disengagement (max. inch lbs.) | 2.0 | | |

REMARKS: 1.) RECOMMENDED MATING TORQUE: 30-35 INCH POUNDS.

| | | | | | |
|-------|---|---|--------------|--------------------------|-----------|
| TITLE | MIL-C-39012/29-0018 TNC, JACK, PANEL MOUNT CAPTIVATED CONTACT | SOLITRON/MICROWAVE PORT SALERNO, FLORIDA | SHEET 2 OF 2 | DRAWING NO. 4044-0055 | REV. - |
|-------|---|---|--------------|--------------------------|-----------|