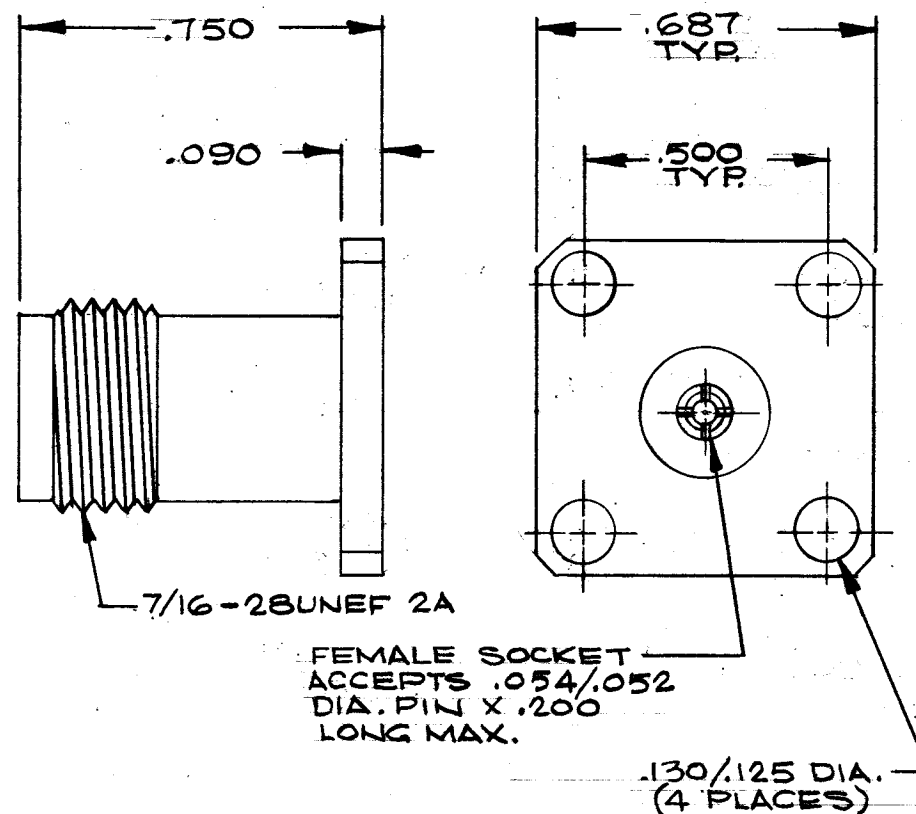


4080-0176

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, $\frac{1}{2}$ 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.	UNLESS OTHERWISE SPECIFIED			SOLITRON/MICROWAVE		REF.
-	REL.DCN F-10148	9/85	CF	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			PORT SALERNO, FLORIDA		ENGINEERING DATA DRAWING
				DIMENSIONS ARE IN INCHES TOLERANCES			MATERIAL		TITLE
				DECIMALS .X ± .030 .XX ± .015 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1°0'	FINISH		TNC JACK, 4-HOLE FLANGE M'NT WITH CAPTIVE FEMALE SOCKET
				DRAWN R.P.A. DATE 9-6-85			SCALE	CODE IDENT. NO.	DRAWING NO.
				CHECKED CF DATE 9-85			-	95077	4080-0176
				APPROVED CF DATE 9-85				A	SHEET 1 OF 2

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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^o

VSWR (max.)

*

1.07 + .007 xFGHz

Insertion Loss (dB max.)

.04 x $\sqrt{\text{FGHz}}$

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:

Center Contact (max. milliohms)

1.5

Outer Contact (max. milliohms)

.2

Center Contact Axial Forces:

Insertion (max. ounces)

24

Withdrawal (min. ounces)

2

Connector Durability (min. cycles)

500

Connector Engagement & Disengagement
(max. inch lbs.)

2.0

REQUIREMENTS

RATINGS

Vibration

MIL-STD-202

Method 204

Cond. D (20G's)

Shock

MIL-STD-202

Method 213

Cond. I (100G's)

Temperature
Cycling

MIL-STD-202

Method 107 - Cond. B
(-65°C to + 200 ° C)

Corrosion

MIL-STD-202

Method 101

Cond. B (48 Hrs.)

Moisture
Resistance

MIL-STD-202

Method 106

Less Step 7b

Barometric Pressure
(Altitude)

MIL-STD-202

Method 105 - Cond. C
(70,000 ft) (375 vrms)

CAPTIVATION:
Center Contact
(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.

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