

NOTES

1002-0001

1. MATING:

Interface dimensions per Solitron/Microwave
MD-108 and MD-125.

2. MATERIALS:

All Metal Parts Except

Outer Contact, Lock

Ring & Contact: _____ Brass per QQ-B-626, 1/2 Hard,
Alloy 360.

Outer Contact

& Contact: _____ Beryllium Copper per QQ-C-530,
Cond. H.T., Alloy 173.

Lock Ring: _____ Phosphor Bronze per ASTM-B159,
Alloy 51000, Temp. H08.

Dielectric: _____ Teflon per Mil-P-19468 and
L-P-403, Type I.

Gasket: _____ Silicone Rubber per ZZ-R-765,
Class IIB, Grade 50 or 60.

3. FINISH:

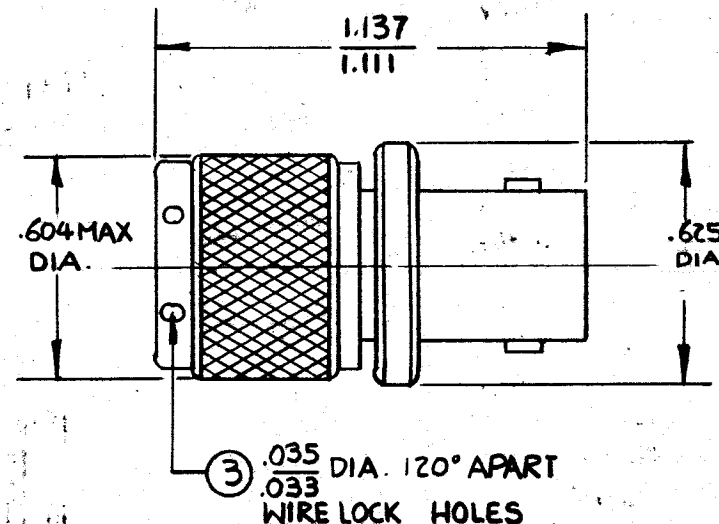
All Metal Parts Except

Outer Contact &

Contact: _____ Silver with Iridite per QQ-S-365,
Type II, Grade A.

Outer Contact

& Contact: _____ Gold per Mil-G-45204, Type II,
Grade C, Class 2; over Copper per
Mil-C-14550, Class 4.



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED		SOLITRON/MICROWAVE		REF.
A	REDRAWN-F-8464	8/81	RD	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 DECIMALS FRACTIONAL ANGULAR .X ± .030 X' ± 1°0' .XX ± .015 ± 1/64 X'X' ± 15' .XXX ± .005		MATERIAL		TITLE
						FINISH AREA		TNC MALE TO BNC FEMALE ADAPTER
				DRAWN RJP DATE 7-30-81		SCALE CODE IDENT. NO. SIZE		Sht 1 of 2
				CHECKED RD DATE 8-6-81		— 95077 A		DRAWING NO.
				APPROVED DGG DATE 8/6/81				1002-0001

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S/M DESIGN STANDARDS

DRAWING NO.
1002-0001

REQUIREMENTS

RATINGS

Nominal Impedance (ohms)

50

Frequency Range (ghz)

DC-6.0

Voltage Rating (max. vrms)

500

Temperature Rating (degrees centigrade)

 -65° to $+165^{\circ}$

VSWR (max.)

 $1.07 + .009 \times \text{FGHz}$

Insertion Loss (dB max.)

 $.05 \times \sqrt{\text{FGHz}}$

RF Leakage (min. dB down)

60 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)

3.0

Outer Contact (max. milliohms)

0.2

Center Contact Axial Forces:

TNC

BNC

Insertion (max. ounces)

24.0

Withdrawal (min. ounces)

2.0

N/A

Connector Durability (min. cycles)

500

Connector Engagement & Disengagement

TNC

BNC

~~(max 35 inch lbs)~~

2 in/lbs.

2 lbs.

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 102 - Cond. C
(-65°C to $+200^{\circ}\text{C}$)

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)

REMARKS: 1) Recommended Mating Torque: TNC 30-35 inch pounds.
BNC N/A

TITLE: TNC MALE TO BNC FEMALE ADAPTER

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

SHT. 2 of 2

DRAWING NO.
1002-0001

REV.

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