ENG. FILE COPY

SF4532-6004

NOTES:

1. MATING:

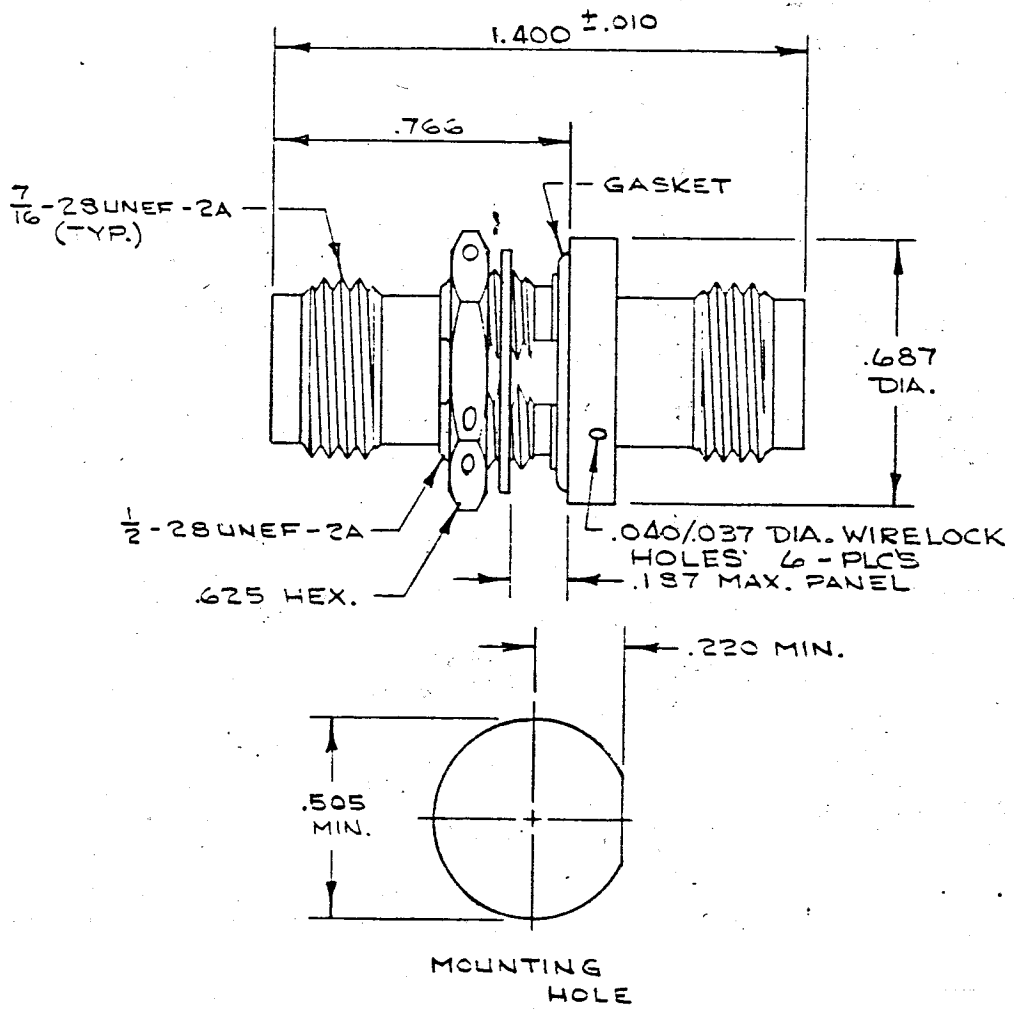
   Interface Dimensions per Mode-Free/TNC Series and Solitron/Microwave MD-137.

2. MATERIALS:

   All Metal parts except for Contact: Stainless Steel per AMS-5640, Type 303, Cond. A.
   Contact: Beryllium Copper per QQ-C-530, Cond. H.T.
   Insulators: Teflon per Mil-P-19468.
   O'Ring: Rubber (Viton) per Mil-R-25897, Type I, Class 1.

3. FINISH:

   All Metal parts except for Contact: Passivate per QQ-P-35, Type 1.
   Contact: Gold per Mil-G-45204, Type II, Class 2; over Copper per Mil-C-14550, Class 4.



SYM	DESCRIPTION	DATE	APPR
—	REL. F-9202	1-83	RW

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

DIMENSIONS ARE IN INCHES
TOLERANCES

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

DRAWN R.GARVIN DATE 1-20-83
CHECKED RE DATE 1/20/83
APPROVED RH DATE 1/20/83

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

ENGINEERING DATA DRAWING

MATERIAL //

FINISH //

TITLE
TNC, JACK TO JACK ADAPTER, BULKHEAD MOUNT

SHEET 1 OF 2

SCALE	CODE IDENT NO.	SIZE	DRAWING NO.
#	95077	A	SF4532-6004

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"DESIGN CRITERIA" SF4532-6004

REQUIREMENT	RATING
Nominal Impedance (ohms)	50
Frequency Range (ghz)	DC-18.0
Voltage Rating (max. vrms)	500
Temperature Rating (degrees centigrade)	-65 TO +165
VSWR (max.)	1.05 +.005 xFGHz
Insertion Loss (dB max.) *	See Below
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) Outer Contact (max. milliohms)	 1.5 .2
Center Contact Axial Forces Insertion (max. ounces) Withdrawal (min. ounces)	 24.0 2.0
Connector Durability (min. cycles)	500
Connector Engagement & Disengagement (max. inch lbs.)	2.0

REQUIREMENT	RATING
Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Shock	MIL-STD-202 method 213 Cond. 1 (100G's)
Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-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)
Hermeticity	N/A
CAPTIVATION Center Contact (Min. Axial Force)	 6 Lbs.

REMARKS: 1.) RECOMMENDED MATING TORQUE: 10-15 INCH POUNDS

* 2.) INSERTION LOSS

a) DC-15 GHz = .04 x $\sqrt{FGHz}$

b) DC-18 GHz = .04 x $\sqrt{FGHz}$ IF MATED WITH SPECIAL KTNC PLUG

c) 15.1 - 18 GHz = .08 x $\sqrt{FGHz}$ IF MATED WITH STD 39012 PLUG

TITLE	SOLITRON/MICROWAVE PORT SALERNO, FLORIDA	SHEET 2 OF 2	DRAWING NO.	REV.
TNC, JACK TO JACK ADAPTER, BULKHEAD MOUNT			SF4532-6004	-