

NOTES

SF4598-6004

1. MATING:

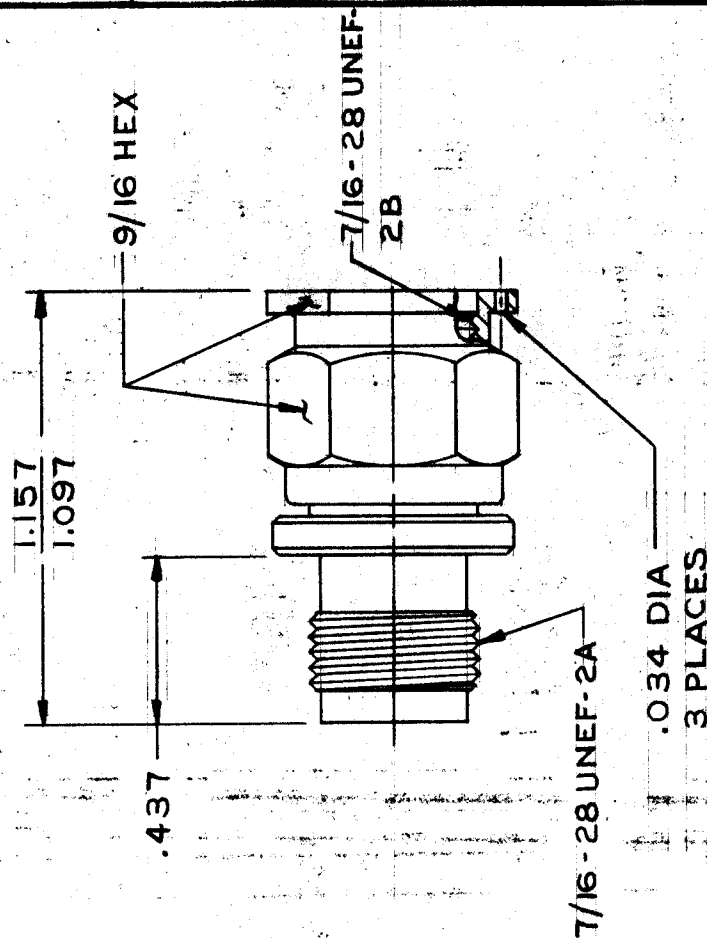
Interface dimensions per Mil-C-39012/PTNC Series and Solitron/Microwave MD-110.

2. MATERIALS:

Body &
Coupling Nut: Stainless Steel per AMS-5640,
Type 303, Cond. A.
Contact: Beryllium Copper per QQ-C-530,
Cond. H., Alloy 173.
Lock Ring: Phosphor Bronze per ASTM-B159,
Alloy 51000, Temp. H08.
Insulator: Teflon per Mil-P-19468 and
L-P-403, Type I.
Gasket: Silicone Rubber per ZZ-R-765,
Class IIB, Grade 50 or 60.

FINISH:
Body &
Coupling Nut: Passivate per QQ-P-35A, Type I
Contact: Gold per Mil-G-45204, Type II,
Grade C, Class 2; over Copper
per Mil-C-14550, Class 4.

Contact epoxy captured.



SYM	DESCRIPTION	DATE	APPR.
-	REL DCN F-8702	12/81	DGG
A	REV. DCN 21218	5/94	R.G.

UNLESS OTHERWISE SPECIFIED
 1. ALL DIMENSIONS ARE AFTER PLATING
 2. BREAK ALL CORNER RADIUS .0625"
 3. CHAMFER 1ST & LAST .5" X 45°
 4. SURFACE ROUGHNESS 32 MIL STD-10
 5. CONCENTRIC COMMON CENTERS TO BE T.I.R.
 6. REMOVE ALL BURRS

DIMENSIONS ARE IN INCHES
TOLERANCES

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

DRAWN _____ DATE _____
 CHECKED _____ DATE _____
 APPROVED DGG DATE 12/2/18

SOLITRON/MICROWAVE PORT SALERNO, FLORIDA	REF. ENGINEERING DATA DRAWING	
TITLE PTNC STRAIGHT ADAPTER JACK TO PLUG	DRAWING NO. SF4598-6004	
MATERIAL _____	SIZE A	Sht 1 of 2
FINISH _____	AREA _____	
SCALE —	CODE IDENT. NO. 95077	

S/M DESIGN STANDARDS

DRAWING NO.

SF4598-6004

REQUIREMENTS	RATINGS	REQUIREMENTS	RATINGS
Nominal Impedance (ohms)	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 +125°	Corrosion	MIL-STD-202 Method 101 Cond. B (48 Hrs.)
VSWR (max.)	1.07 + .007 x FGHZ	Moisture Resistance	MIL-STD-202 Method 106 Less Step 7b
Insertion Loss (dB max.)	.05 x $\sqrt{\text{FGHZ}}$	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 (Min. Axial Force) (Min. Radial Torque)	10.0 lbs. 4.0 in.oz.
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 0.2		
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		

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

TITLE: PTNC STRAIGHT ADAPTER
JACK TO PLUG**SOLITRON / MICROWAVE**
PORT SALERNO, FLORIDA

SHT. 2 of 2

DRAWING NO.

SF4598-6004

REV.

-