SF1103-6001

NOTES:

1. MATING:

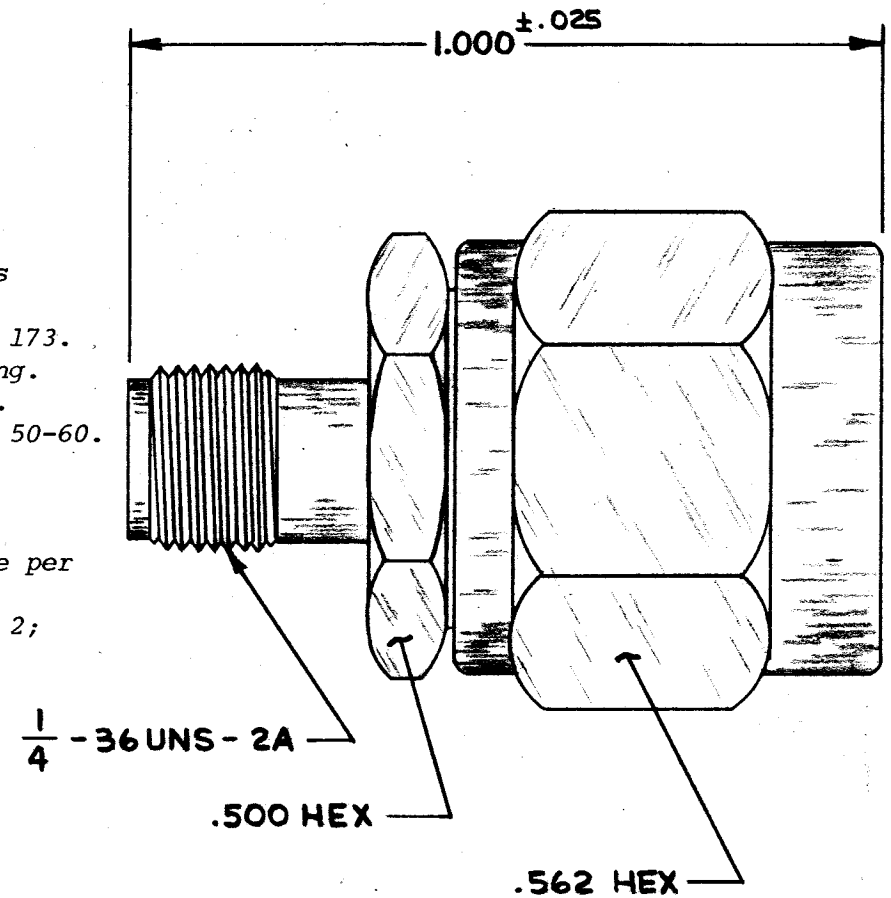
Interface dimensions per Mil-C-39012/SMA and TNC Series and Solitron/Microwave MD-107 and MD-110.

2. MATERIALS:

All metal parts except Contact and Lock Ring: Stainless Steel per QQ-S-764, Type 303, Cond. A.
Contact: Beryllium Copper per QQ-C-530, Cond. H, Alloy 173.
Lock Ring: Phospher Bronze per QQ-S-750, Comp. A, Spring.
Dielectric: Teflon per Mil-P-19468 and L-P-403, Type I.
Gasket: Silicone Rubber per ZZ-R-765, Class IIB, Grade 50-60.

3. FINISH:

All metal parts except Contact and Lock Ring: 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.



SYM	DESCRIPTION	DATE	APPR.
—	REL. DCN F-6429	4-78	DGG

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 Lindsay DATE 4-28-78
CHECKED DATE
APPROVED DGG DATE 5/9/78

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

MATERIAL —

FINISH —

ENGINEERING DATA DRAWING

TITLE
SMA FEMALE TO PTNC MALE ADAPTER

SCALE	CODE IDENT. NO.	SIZE
—	95077	A

DRAWING NO.
SF1103-6001
SHEET 1 OF 2

ENG. FILE COPY

"DESIGN CRITERIA"

SF1103-6001

REQUIREMENT	RATING		REQUIREMENT	RATING
Nominal Impedance (ohms)	50		Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-15.0			
Voltage Rating (max. vrms)	335		Shock	MIL-STD-202 method 213 Cond. I (100G's)
Temperature Rating (degrees centigrade)	-65 To +165			
VSWR (max.)	1.04 +.005xFGHz		Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-65^{o}c To $+200^{o}$c)
Insertion Loss (dB max.)	$.04x\sqrt{FGHz}$			
RF Leakage (min. dB down)	100dB-FGHz		Corrosion	MIL-STD-202 method 101 Cond. B (48 hrs.)
RF High Potential (max. vrms)	670AT 5MHz			
Dielectric Withstanding Voltage (max. vrms)	1000		Moisture Resistance	MIL-STD-202 method 106 less step 7b
Insulation Resistance (min. megohms)	5000			
Contact Resistance Center Contact (max. milliohms) Outer Contact (max. milliohms)	 4.5 2.0		Barometric Pressure (Altitude)	MIL-STD-202 method 105 Cond. C (70,000 ft.) (250 vrms)
	PTNC	SMA		
Center Contact Axial Forces Insertion (max. ounces) Withdrawal (min. ounces)	 N/A	 48.0 2.0	Hermeticity	N/A
Connector Durability (min. cycles)	500		Captivation Center Contact: (Min. Axial Force)	6 Lbs.
Connector Engagement & Disengagement (max. inch lbs.)	2.0			

REMARKS: 1.) RECOMMENDED MATING TORQUE: SMA 7-10 IN. LBS.
PTNC 30-35 IN. LBS.

TITLE				
SMA FEMALE TO PTNC MALE ADAPTER	SOLITRON/MICROWAVE PORT SALERNO, FLORIDA	SHEET 2 OF 2	DRAWING NO. SF1103-6001	REV -