

## NOTES:

1. MATING:

Interface dimensions per Mil-C-39012/Type N and SMA Series, Solitron/Microwave MD-126 and MD-107.

2. MATERIALS:

Body and Coupling Nut: Stainless Steel per QQ-S-764, Type 303, Cond. A.

Contact and Lock Ring: Beryllium Copper per QQ-C-530, Cond. HT., Alloy 173.

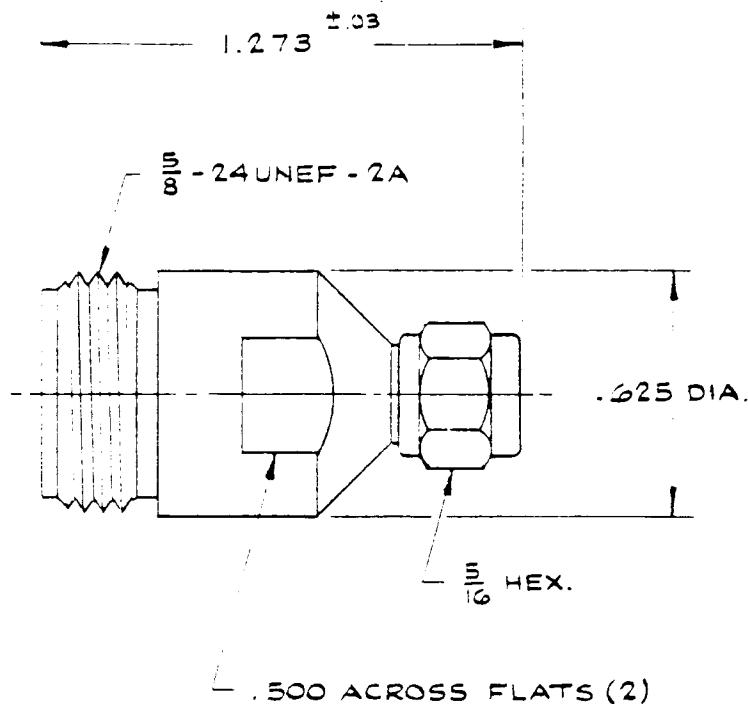
Insulator: Teflon per Mil-P-19468 and L-P-403, Type I.

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

3. FINISH:

Body and Coupling Nut: Passivate per QQ-P-35A, Type I.

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



SYN	DESCRIPTION	DATE	APPR	UNLESS OTHERWISE SPECIFIED	SOLITRON / MICROWAVE	REF.
-	REL. F-6423	3/73	3/73	1 REMOVE ALL BURRS 2 BREAK ALL CORNERS & EDGES .005 R MAX. 3 CHAMFER 1ST & LAST THREADS 45° 4 SURFACE ROUGHNESS 63 $\mu$ MIL STD-10 5 DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN — TIR 6 ALL DIMENSIONS ARE AFTER PLATING	PORT SALERNO, FLORIDA	ENGINEERING DATA DRAWING
				DIMENSIONS ARE IN INCHES TOLERANCES		
				DECIMALS      FRACTIONAL      ANGULAR XX ± .030      ± 1/64      X° ± 1° XX ± .015                X°X' ± 15' XXX ± .005	MATERIAL	TITLE
				DRAWN <u>N</u> DATE 4-27-78		SMA, PLUG TO TYPE PN, JACK ADAPTER
				CHECKED <u>N</u> DATE	FINISH	SHEET 1 OF 2
				APPROVED <u>DSS</u> DATE 5/1/78	SCALE	DRAWING NO.
					95077	A

"DESIGN CRITERIA"

SF1110-6001

REQUIREMENT	RATING	REQUIREMENT	RATING
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-18.0	Shock	MIL-STD-202 method 213 Cond. I (100G's)
Voltage Rating (max. vrms)	335	Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-65°C To + 200°C)
Temperature Rating (degrees centigrade)	-65 To +165	Corrosion	MIL-STD-202 method 101 Cond. B (48 hrs.)
VSWR (max.)	1.04 + .005 x FGHZ	Moisture Resistance	MIL-STD-202 method 106 less step 7b
Insertion Loss (dB max.)	.05 x V FGHZ	Barometric Pressure (Altitude)	MIL-STD-202 method 105 Cond. C (70,000 ft.) (250 vrms)
RF Leakage (min. dB down)	100 dB-FGHZ	Hermeticity	N/A
RF High Potential (max. vrms)	670 AT 5MHz	Captivation Center Contact: (Min. Axial Force)	6.0
Dielectric Withstanding Voltage (max. vrms)	1000		
Insulation Resistance (min. megohms)	5000		
Contact Resistance			
Center Contact (max. milliohms)	3.0		
Outer Contact (max. milliohms)	2.0		
Center Contact Axial Forces	TYPE PN	SMA	
Insertion (max. ounces)	24.0	N/A	
Withdrawal (min. ounces)	2.0		
Connector Durability (min. cycles)	500		
Connector Engagement & Disengagement (max. inch lbs.)	TYPE PN	SMA	
	6.0	2.0	

REMARKS: 1.) RECOMMENDED MATING TORQUE: PN 35-40 INCH POUNDS.  
SMA 7-10 INCH POUNDS.

TITLE

SMA, PLUG TO TYPE PN,  
JACK, ADAPTERSOLITRON/MICROWAVE  
PORT SALERNO, FLORIDA

SHEET 2 OF 2

DRAWING NO.  
SF1110-6001REV  
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