

SF1102-6001

NOTES:

1. MATING:

Interface dimensions per Mil-C-39012/SMA and TNC Series and Solitron/Microwave MD-107 and MD-108.

2. MATERIALS:

All Metal parts Except Contact: Stainless Steel per QQ-S-764, Type 303, Cond. A.

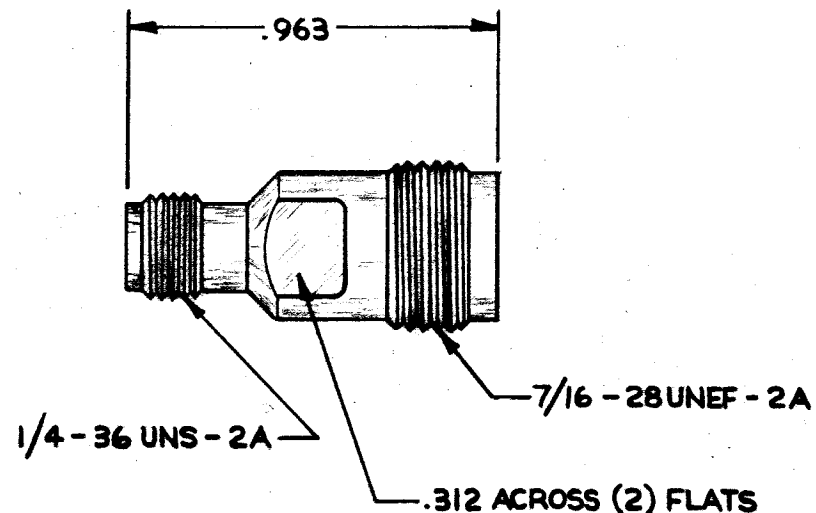
Contact: Beryllium Copper per QQ-C-530, Cond. H, Alloy 173.

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

3. FINISH:

All Metal parts except Contact: 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.	UNLESS OTHERWISE SPECIFIED	SOLITRON / MICROWAVE			ENGINEERING DATA DRAWING	
-	REL. DCNF-6429	5/78	DGG	1. REMOVE ALL BURRS	PORT SALERNO, FLORIDA			TITLE	
A	REL. F-7186	6/79	DGG	2. BREAK ALL CORNERS & EDGES .005 R MAX.	MATERIAL				
				3. CHAMFER 1ST & LAST THREADS 45°	FINISH			SMA FEMALE TO PTNC FEMALE ADAPTER	
				4. SURFACE ROUGHNESS 63 ✓ MIL-STD-10	SCALE				
				5. DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN T.I.R.	CODE IDENT. NO.			DRAWING NO.	
				6. ALL DIMENSIONS ARE AFTER PLATING	SIZE				
				DIMENSIONS ARE IN INCHES TOLERANCES	95077			SF1102-6001 SHEET 1 OF 2	
				DECIMALS FRACTIONAL ANGULAR	A				
				.X ± .030					
				.XX ± .015					
				.XXX ± .005					
				DRAWN <i>Arden</i> DATE 5-4-78					
				CHECKED DATE					
				APPROVED <i>DGG</i> DATE 5/9/78					

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"DESIGN CRITERIA"

REQUIREMENT	RATING		REQUIREMENT	RATING
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)	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.)	1.07 +.010xFGHz		Moisture Resistance	MIL-STD-202 method 106 less step 7b
Insertion Loss (dB max.)	.05x√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 Lbs.
Dielectric Withstanding Voltage (max. vrms)	1000			
Insulation Resistance (min. megohms)	5000			
Contact Resistance				
Center Contact (max. milliohms)	4.5			
Outer Contact (max. milliohms)	2.0			
Center Contact Axial Forces	SMA	TNC		
Insertion (max. ounces)	48.0	24.0		
Withdrawal (min. ounces)	2.0	2.0		
Connector Durability (min. cycles)	500			
Connector Engagement & Disengagement (max. inch lbs.)	2.0			

REMARKS: 1.) RECOMMENDED MATING TORQUE: SMA - 7-10 INCH POUNDS.
PTNC - 30-35 INCH POUNDS.

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TITLE	SMA FEMALE TO PTNC FEMALE ADAPTER	SOLITRON/MICROWAVE PORT SALERNO, FLORIDA	SHEET 2 OF 2	DRAWING NO. SF1102-6001	REV A
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