

SF1131-6001

**NOTES:**

**1. MATING:**

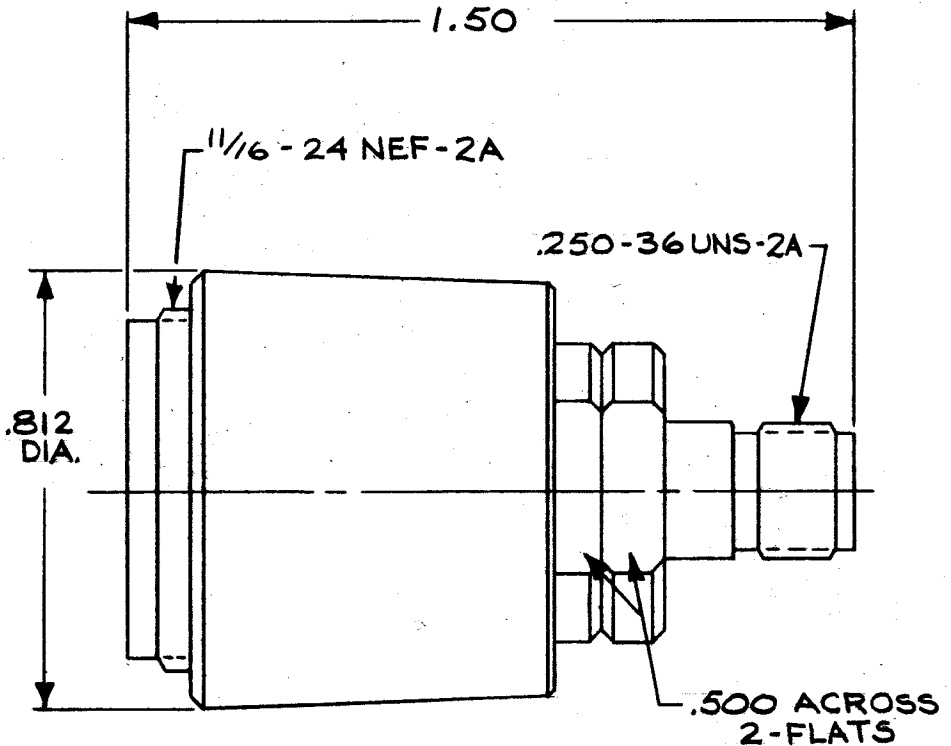
- 1.1 SMA Jack: Interface Dimensions per Mil-C-39012/SMA Series and Solitron/Microwave MD-107.
- 1.2 7MM: Interface Dimensions per IEEE, Std. 287.

**2. MATERIALS:**

- 2.1 SMA Plug: Body - Stainless Steel per QQ-S-764, Type 303, Cond. A.  
Contact - Beryllium Copper per QQ-C-530, Cond. H.  
Insulator - Teflon per Mil-P-19468A.
- 2.2 7MM: Coupling Mechanism - Stainless Steel  
Body & Contact - Beryllium Copper.  
Insulator - Rexolite.

**3. FINISH:**

- 3.1 SMA Plug: Body - Passivate per QQ-P-35A, Type 1.  
Contact - Gold per Mil-G-45204, Type II, Class 2; over Copper per Mil-C-14550, Class 4.
- 3.2 7MM: Coupling Mechanism - Passivate per QQ-P-35A, Type 1.  
Body & Contact - Gold Plated.



SYM	DESCRIPTION	DATE	APPR.	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	<b>SOLITRON/MICROWAVE</b>		REF.
—	REL DCNF-05481	11-76	DGG		PORT SALERNO, FLORIDA		ENGINEERING DATA DRAWING
				DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS      FRACTIONAL      ANGULAR .X ± .030 .XX ± .015      ± 1/64      X° ± 1'0" .XXX ± .005      X'X' ± 15'		MATERIAL	TITLE
							SMA, JACK TO 7MM, ADAPTER
							SHEET 1 OF 2
				DRAWN <i>RPRAD</i> DATE 11-22-76	SCALE	CODE IDENT. NO.	DRAWING NO.
				CHECKED DATE	<i>CH</i>	95077	SF1131-6001
				APPROVED <i>DGG</i> DATE 11-23-76		A	

# ENG. FILE COPY

## "DESIGN CRITERIA"

SF1131-6001

REQUIREMENT	RATING	REQUIREMENT	RATING
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-18.0		
Voltage Rating (max. vrms)	335	Shock	MIL-STD-202 method 213 Cond. I (100G's)
Temperature Rating (degrees centigrade)	-65 <sup>0</sup> To +70		
VSWR (max.)	1.02+.003 xFGHZ	Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-65 <sup>0</sup> c To + 85 <sup>0</sup> c)
Insertion Loss (dB max.)	.02dB x√FGHZ		
RF Leakage (min. dB down)	100 dB-FGHZ	Corrosion	MIL-STD-202 method 101 Cond. B (48 hrs.)
RF High Potential (max. vrms)	670 AT 5MHz		
Dielectric Withstanding Voltage (max. vrms)	1000	Moisture Resistance	MIL-STD-202 method 106 less step 7b
Insulation Resistance (min. megohms)	5000		
Contact Resistance		Barometric Pressure (Altitude)	MIL-STD-202 method 105 Cord. C (70,000 ft.) ( 250 vrms)
Center Contact (max. milliohms)	3.0		
Outer Contact (max. milliohms)	2.0	Hermeticity	N/A
Center Contact Axial Forces			
Insertion (max. ounces)	48.0		
Withdrawal (min. ounces)	2.0		
Connector Durability (min. cycles)	500		
Connector Engagement & Disengagement (max. inch lbs.)	2.0		

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