

ENG FILE COPY

SF6505-6006

NOTES:

1. MATING:

Interface dimensios per Mil-C-39012/N Series and Solitron/
Microwave MD-126.

2. MATERIALS:

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

Contact: Brass per QQ-B-626, Half Hard, Comp. 22.

Lock Ring: Phosphor Bronze per QQ-B-750, Comp. A, Spring
Temper.

Dielectric: Teflon per Mil-P-19468.

Gasket: Silicone Rubber per ZZ-R-765, Class II B,
Grade 50 — 60

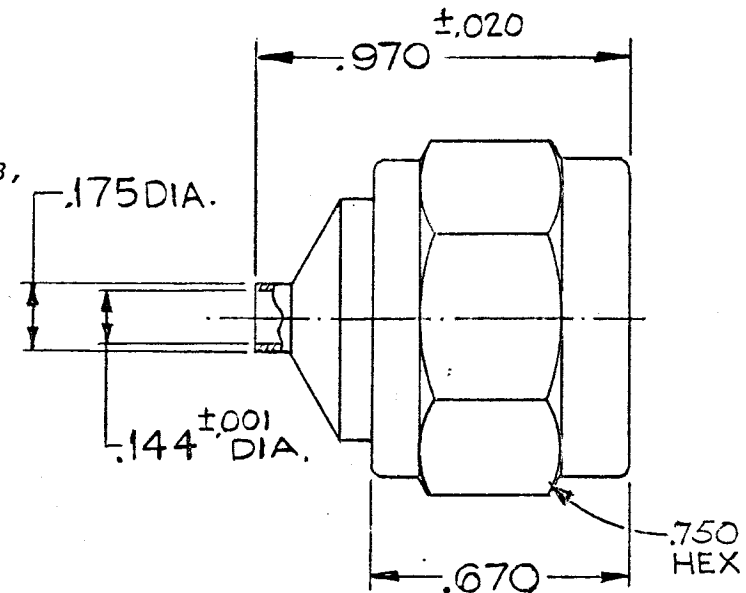
3. FINISH:

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.

Body: Gold per Mil-G-45204, Type II, Grade C, Class 1;
over Nickel per Mil-C-26074, Class 1.

4. CABLE ASSEMBLY INSTRUCTIONS PER SOLITRON/MICROWAVE 300-80-145.



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED			SOLITRON/MICROWAVE		ENGINEERING DATA DRAWING	
-	REL. DSN F-6394	4/78	JD	1. REMOVE ALL BURRS			PORT SALERNO, FLORIDA		TITLE	
A	REV. F-6461	5/5/78	JD	2. BREAK ALL CORNERS & EDGES .005 R MAX.			MATERIAL			
				3. CHAMFER 1ST & LAST THREADS 45°			FINISH		"PN" PLUG DIRECT SOLDER FOR .141 DIA. SEMI-RIGID CABLE	
				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			SCALE		DRAWING NO.	
				DECIMALS	FRACTIONAL	ANGULAR	CODE IDENT NO.		SIZE	
				.X ± .030		X° ± 1°0'	95077		A	
				.XX ± .015	± 1/64					
				.XXX ± .005		X'X' ± 15'				
				DRAWN BY R. RASO DATE 4-10-78					SHEET 1 OF 2	
				CHECKED DATE					SF6505-6006	
				APPROVED DATE						

ENG FILE COPY

"DESIGN CRITERIA"

SF6505-6006

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 To +105		
VSWR (max.)	1.05 +.007 xFGHZ	* Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-65°C To + 115°C)
Insertion Loss (dB max.)	.05dB 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 Cond. C (70,000 ft.) (250 vrms)
Center Contact (max. milliohms)	1.0		
Outer Contact (max. milliohms)	0.2	Hermeticity	N/A
Center Contact Axial Forces			
Insertion (max. ounces)	N/A		
Withdrawal (min. ounces)	N/A		
Connector Durability (min. cycles)	500		
Connector Engagement & Disengagement (max. inch lbs.)	6.0		

REMARKS: 1.) RECOMMENDED MATING TORQUE: 35-40 INCH POUNDS
 *2.) CONNECTOR IS DERATED FROM +165°C WHEN MATED WITH CABLE SPECIFIED

TITLE "PN" PLUG, DIRECT SOLDER
 FOR .141 DIA. SEMI-RIGID CABLE

SOLITRON/MICROWAVE
 PORT SALERNO, FLORIDA

SHEET 2 OF 2

DRAWING NO.
 SF6505-6006

REV
 A