

# ENG FILE COPY

SF6509-6003

**NOTES:**

**1. MATING:**

Interface Dimensions Per Mil-C-39012/N Series And Solitron/  
Microwave MD-109.

**2. MATERIALS:**

Body And Coupling Nut: Stainless Steel Per QQ-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.

Crimp Sleeve: Copper, Hard Drawn, Per QQ-C-504.

Dielectric: Teflon Per Mil-P-19468A.

Gasket: Silicone Rubber Per ZZ-R-765, Grade 65-75.

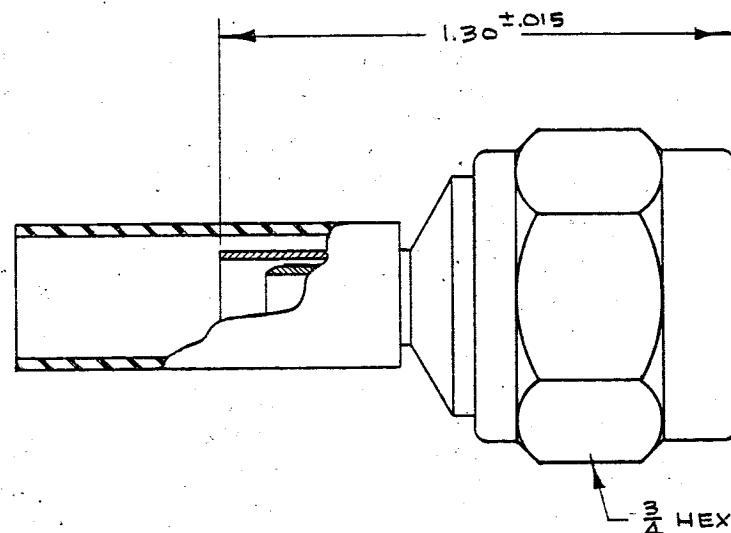
**3. FINISH:**

Body And Coupling Nut: Passivate Per QQ-P-35A, Type I.

Contact And Crimp Sleeve: Gold Per Mil-G-45204, Type II,  
Class 2 (.00010-.00015); Over Copper Per Mil-C-14550, Class  
4, (.00010-.00015).

**4. CABLE ASSEMBLY INSTRUCTIONS PER SOLITRON/MICROWAVE CA-319.**

**5. CONNECTOR ACCOMMODATES RG-55B/U, RG-142B/U, SF-142/B,  
RG-223/U, RG-400/U CABLES.**



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED			SOLITRON/MICROWAVE		ENGINEERING DATA		
W	REL. F6848	12/78	DGG	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			PORT SALERNO, FLORIDA		DRAWING		
A	REV. DCN 21024	12-93	DAC	DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS      FRACTIONAL      ANGULAR .X ± .030                      X' ± 1'0" .XX ± .015                     ± 1/64                      X'X' ± 15' .XXX ± .005			MATERIAL		TITLE		
							NOTE 2		TYPE PN, PLUG CRIMP TYPE		
							FINISH		SHEET 1 OF 2		
							NOTE 3		DRAWING NO.		
				DRAWN <u>RGARVIN</u> DATE 12-15-78			SCALE	CODE IDENT. NO.	SIZE	DRAWING NO.	REV.
				CHECKED                      DATE			2x	95077	A	SF6509-6003	—
				APPROVED <u>DGG</u> DATE 12/18/78							

ENG FILE COPY

"DESIGN CRITERIA"

SF6509-6003

REQUIREMENT	RATING	REQUIREMENT	RATING
Nominal Impedance (ohms)	50	Vibration	MIL - STD - 202 method 204 Cond. D (20G's)
Frequency Range (ghz)	DC- 8.0		
Voltage Rating ( max. vrms)	335	Shock	MIL - STD 202 method 213 Cond. I (100G's)
Temperature Rating (degrees centigrade) *	-65 To +165		
VSWR (max.)	1.10 + .015 x fGHZ	Temperature Cycling *	MIL - STD - 202 method 102-Cond. C (-65 c To + 200 c)
Insertion Loss (dB max.)	.05 dB <sup>x</sup> √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 Center Contact (max. milliohms)	1.0	Barometric Pressure (Altitude)	MIL - STD - 202 method 105 Cond. C (70,000FT.) (250vrms)
Outer Contact (max. milliohms)	0.2		
Center Contact Axial Forces Insertion (max. ounces)	N/A	Hermeticity	N/A
Withdrawal (min. ounces)	N/A		
Connector Durability (min. cycles)	500	Body Sealing Torque	N/A
Connector Engagement & Disengagement (max. inch lbs.)	6.0		

## REMARKS:

- 1) RECOMMENDED MATING TORQUE: 35-40 INCH POUNDS
- \* 2) CABLE TEMPERATURE RATING MUST CONFORM TO MAINTAIN CONNECTOR TEMPERATURE RATING.

TITLE

TYPE PN, PLUG CRIMP TYPE

SHEET 2 OF 2

SF 6509-6003

REV.

-