

**ENG FILE COPY****NOTES:****1. MATING:**

Interface Dimensions per Mil-C-39012/SMC Series and Solitron/Microwave MD-124.

**2. MATERIALS:**

All Metal parts except for Contact, Lock Ring & Crimp Ring: Brass per QQ-B-626, Half Hard, Alloy 360.

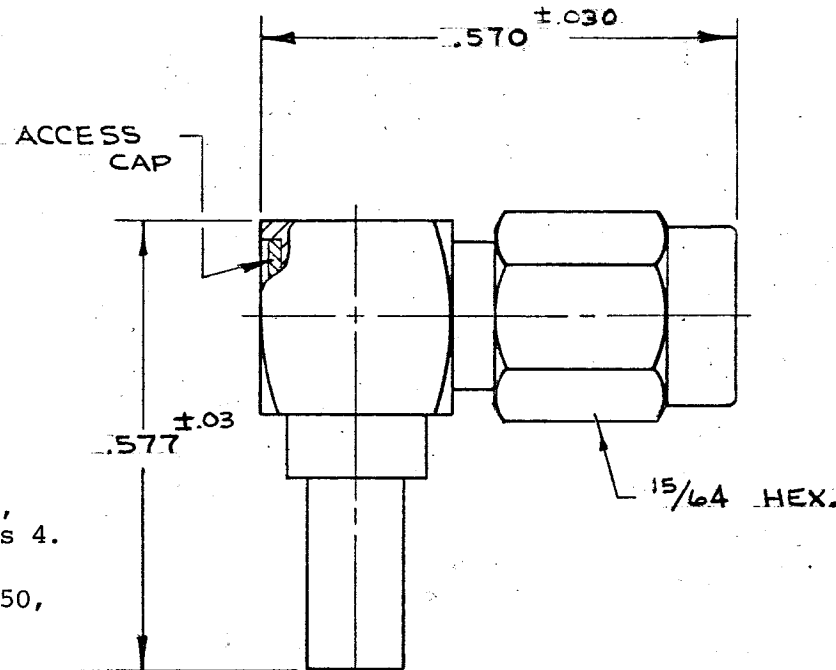
Contact & Lock Ring: Beryllium Copper per QQ-C-530, Cond. H, Alloy 173.

Crimp Ring: Copper per WW-T-799, Type K, Form A, Class 1.

**3. FINISH:**

All Metal parts except for Contact, Lock Ring & Crimp Ring: Gold per Mil-G-45204, Type II, Grade C, Class 1; over Copper per Mil-C-14550, Class 4.

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

**4. Connector Accommodates RG-178B, 196A/U Cables.****5. For Cable Assembly Instructions see S/M 300-80-093**

SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED			SOLITRON/MICROWAVE		REF.
REL.	F-05683	2-77	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		ENGINEERING DATA DRAWING
A	REV. F 5849	9/1/77	DGG	DIMENSIONS ARE IN INCHES TOLERANCES			MATERIAL		TITLE
B	REV F-8889	5/82	DGG	DECIMALS	FRACTIONAL	ANGULAR	FINISH		SMC, PLUG, R/A, CRIMP TYPE
				.X ± .030		X° ± 1'0"			SHEET 1 OF 2
				.XX ± .015	± 1/64"				DRAWING NO.
				.XXX ± .005		X°X' ± 15'			2228-0001
				DRAWN	DATE	2-22-77	SCALE	CODE IDENT. NO.	SIZE
				CHECKED	DATE		✓	95077	A
				APPROVED	DATE	2-22-77			

# ENG FILE COPY

## "DESIGN CRITERIA"

2228-0001

REQUIREMENT	RATING	REQUIREMENT	RATING
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-10.0		
Voltage Rating (max. vrms)	335	Shock	MIL-STD-202 method 213 Cond. I (100G's)
Temperature Rating (degrees centigrade)	-65 To +165		
VSWR (max.)	1.35+.04 xFGHZ	Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-65°C To + 200°C)
Insertion Loss (dB max.)	.08 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)	6.0		
Outer Contact (max. milliohms)	1.0	Hermeticity	N/A
Center Contact Axial Forces			
Insertion (max. ounces)	40.0	CONTACT CAPTIVATION Axial Force (min. lbs.)	4.0
Withdrawal (min. ounces)	1.0		
Connector Durability (min. cycles)	500		
Connector Engagement & Disengagement (max. inch lbs.)	1.0		

REMARKS: 1.) RECOMMENDED MATING TORQUE: 35-50 INCH OUNCES

TITLE SMC, PLUG, R/A, CRIMP TYPE

**SOLITRON/MICROWAVE**  
PORT SALERNO, FLORIDA

SHEET 2 OF 2

DRAWING NO.  
2228-0001

REV  
B