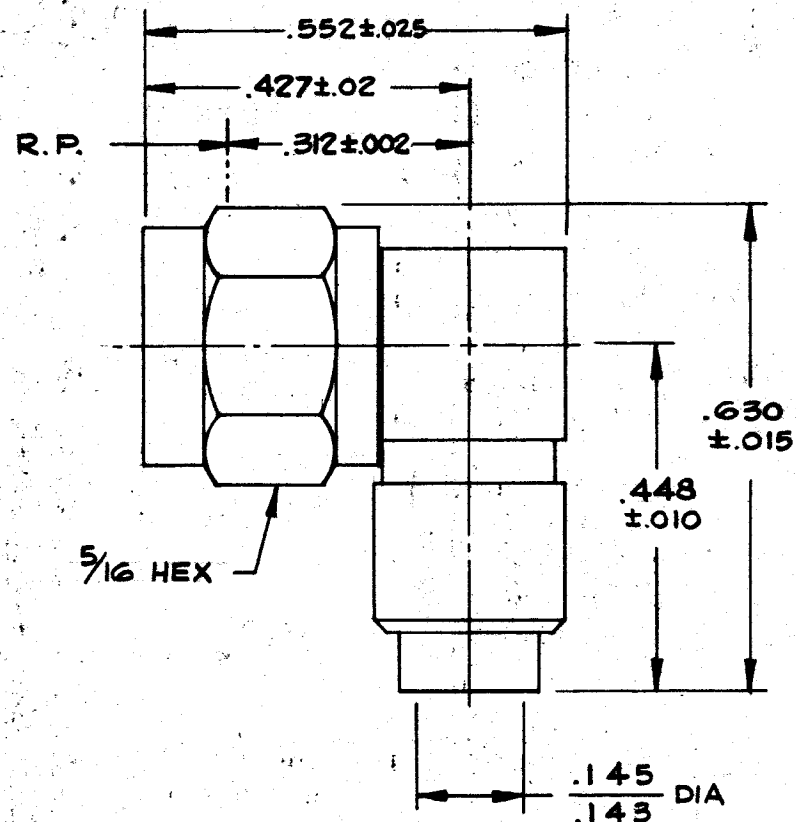


NOTES

1. **MATING:**
Interface dimensions per Mil-C-39012/SMA Series and Solitron/Microwave MD-107.
2. **MATERIALS:**
Body, Ferrule & Coupling Nut: Stainless Steel per AMS-5640, Type 303, Cond. A.
Contact & Lock Ring: Beryllium Copper per QQ-C-530, Cond. H.T., Alloy 173.
Insulator: Teflon per Mil-P-19468 & L-P-403, Type I.
Gasket: Silicone Rubber per ZZ-R-765, Class IIB, Grade 50-60.
3. **FINISH:**
Body & Coupling Nut: Passivate per QQ-P-35, Type I.
Ferrule: Gold per Mil-G-45204, Type I, Grade C, Class 1; over Nickel per Mil-C-26074, Class 1.
Contact: Gold per Mil-G-45204, Type I, Grade C, Class 2; over Copper per Mil-C-14550, Class 4.
Lock Ring: None.
4. Connector accommodates RG-402/U (.141 Dia.) Semi-Rigid Cable.
5. Cable Assembly Instructions: Per S/M 300-80-156.



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED			REF.
				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			
-	REL F-8044	12/80	D	DIMENSIONS ARE IN INCHES TOLERANCES			MATERIAL
A	REV. DCW F-8106	1/81	D	DECIMALS	FRACTIONAL	ANGULAR	TITLE
B	REV. F-8458	7-81	RL	.X ± .030		X° ± 1'0"	SMA C-RA PLUG
				.XX ± .015	± 1/64	X°X' ± 15'	FOR RG-402/U CABLE
				.XXX ± .005			DIRECT SOLDER-ON
				DRAWN	NPD	DATE	12-1-80
				CHECKED		DATE	
				APPROVED	D	DATE	12-3-80
				SCALE		CODE IDENT. NO.	95077
						SIZE	A
						DRAWING NO.	SF2912-6605

Sht 1 of 2

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S/M DESIGN STANDARDS

DRAWING NO.
SF2912-6605

REQUIREMENTS	RATINGS	REQUIREMENTS	RATINGS
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 Method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-18.0		
Voltage Rating (max. vrms)	500	Shock	MIL-STD-202 Method 213 Cond. I (100G's)
Temperature Rating (degrees centigrade)	-65° to +165°		
VSWR (max.)	1.05 + .008 xFGHZ	Temperature Cycling	MIL-STD-202 Method 102 - Cond. C (-65°C to + 115 ° C)
Insertion Loss (dB max.)	.03 x $\sqrt{\text{FGHZ}}$		
RF Leakage (min. dB down)	100 dB-FGHZ	Corrosion	MIL-STD-202 Method 101 Cond. B (48 Hrs.)
RF High Potential (max. vrms)	1000 at 5MHZ		
Dielectric Withstanding Voltage (max. vrms)	1500	Moisture Resistance	MIL-STD-202 Method 106 Less Step 7b
Insulation Resistance (min. megohms)	5000		
Contact Resistance: Center Contact (max. milliohms) Outer Contact (max. milliohms)	3.0 2.0	Barometric Pressure (Altitude)	MIL-STD-202 Method 105 - Cond. C (70,000 ft) (375 vrms)
Center Contact Axial Forces: Insertion (max. ounces) Withdrawal (min. ounces)	N/A		
Connector Durability (min. cycles)	500	Captivation Center Contact (Min. Axial Force)	6.0 Lbs.
Connector Engagement & Disengagement (max. inch lbs.)	2.0		

REMARKS: 1) Recommended Mating Torque: 7-10 Inch Pounds.

TITLE: SMA C-RA PLUG FOR RG-402/U CABLE
DIRECT SOLDER-ON

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

SHT. 2 of 2

DRAWING NO.
SF2912-6605

REV.
B