

NOTES:

1. MATING:

Interface dimensions per Mil-C-39012/SMA Series and Solitron/Microwave MD-107.

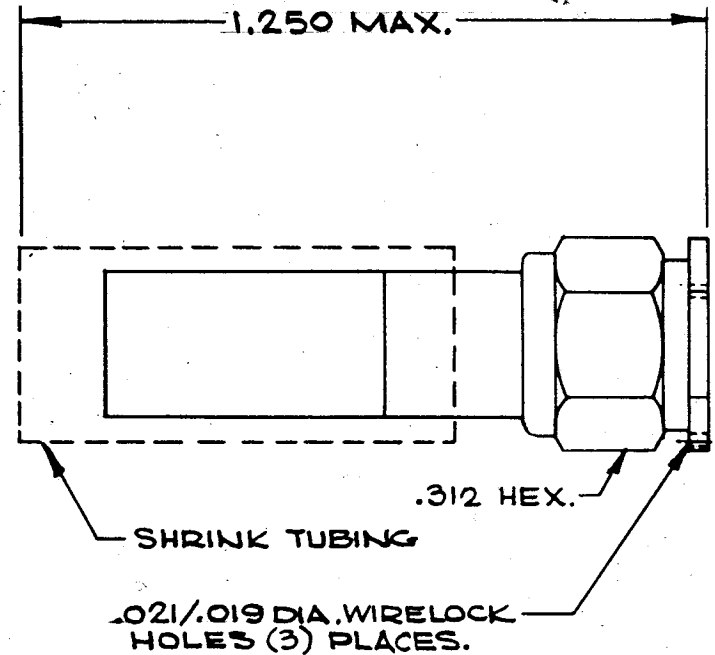
2. MATERIALS:

- Body, Coupling Nut: . Stainless Steel per AMS-5640, Type 303, Cond. A.
- Crimp Ring:..... Copper per WW-T-799, Type K, Form A, Class 1.
- Dielectric: Teflon per Mil-P-19468A, and L-P-403, Type I.
- Gasket:..... Silicone Rubber per ZZ-R-765, Class IIB, Grade 50 or 60.
- Shrink Tubing:..... SCL Polyolefin per Mil-I-23053/4, Class 1.
- Contact & Lock Ring: Beryllium Copper per QQ-C-530, Cond. H, Alloy 173.

3. FINISH:

- Body, Coupling Nut: . Passivate per QQ-P-35A, Type I.
- Contact:..... Gold per Mil-G-45204, Type I, Class 2; over Copper per Mil-C-14550, Class 4.
- Crimp Ring;..... Silver With Iridite per QQ-S-365, Type II, Grade A.

- 4. Cable Assembly Instructions: Per Solitron/Microwave Drawing 300-80-274
- 5. Accommodates RG - 142/U, 223/U Cables.
- 6. Center Contact Captivated.



SYM	DESCRIPTION	DATE	APPR	UNLESS OTHERWISE SPECIFIED			REF				
				1 ALL DIMENSIONS ARE AFTER PLATING 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 REMOVE ALL BURRS				SOLITRON/MICROWAVE PORT SALERNO, FLORIDA		ENGINEERING DATA DRAWING	
-	REL.DCN F-10253	2/86	RD	DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONAL ANGULAR .X ± .030 X' ± 1'0" .XX ± .015 ± 1/64 X'X' ± 15" .XXX ± .005			MATERIAL _____ FINISH _____ AREA _____		TITLE SMA STRAIGHT PLUG CRIMP TYPE.		
				DRAWN R.R.A. DATE 12-16-85			SCALE	CODE IDENT NO.	SIZE	DRAWING NO.	SHT. 1 of 2
				CHECKED _____ DATE _____			-	95077	A	M39012/55-3028	
				APPROVED RD DATE 2-26-86							

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S/M DESIGN STANDARDS

DRAWING NO.
M39012/55-3028

REQUIREMENTS	RATINGS	REQUIREMENTS	RATINGS
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 Method 204 Cond. D (20G's)
Frequency Range (ghz)	DC - 12.4		
Voltage Rating (max. vrms)	335	Shock	MIL-STD-202 Method 213 Cond. I (100G's)
Temperature Rating (degrees centigrade)	-65° to + 165°		
VSWR (max.)	1.15 + .010 xFGHZ	Temperature Cycling	MIL-STD-202 Method 107 - Cond. B (-65°C to + 200 ° C)
Insertion Loss (dB max.)	.06 x√FGHZ		
RF Leakage (min. dB down)	60 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) Outer Contact (max. milliohms)	3.0 2.0	Barometric Pressure (Altitude)	MIL-STD-202 Method 105 - Cond. C (70,000 ft) (250 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 lbs.
Connector Engagement & Disengagement (max. inch lbs.)	2.0		

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

TITLE: SMA, PLUG, CRIMP

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

SHT. 2 of 2

DRAWING NO.
M39012/55-3028

REV.