

ENG. FILE COPY

M39012/80- 3008

NOTES:

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

2. MATERIALS:

ALL METAL PARTS

EXCEPT CONTACT

& LOCK RING....Stainless Steel per AMS-5640, Type 303, Cond. A.

CONTACT & LOCK

RING.....Beryllium Copper per QQ-C-530, Cont. H.T., Alloy 173.

INSULATOR.....Teflon per Mil-P-19468 & L-P-403, Type 1.

GASKET.....Silicone Rubber per ZZ-R-765, Class IIB, Grade 50 - 60.

3. FINISH:

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

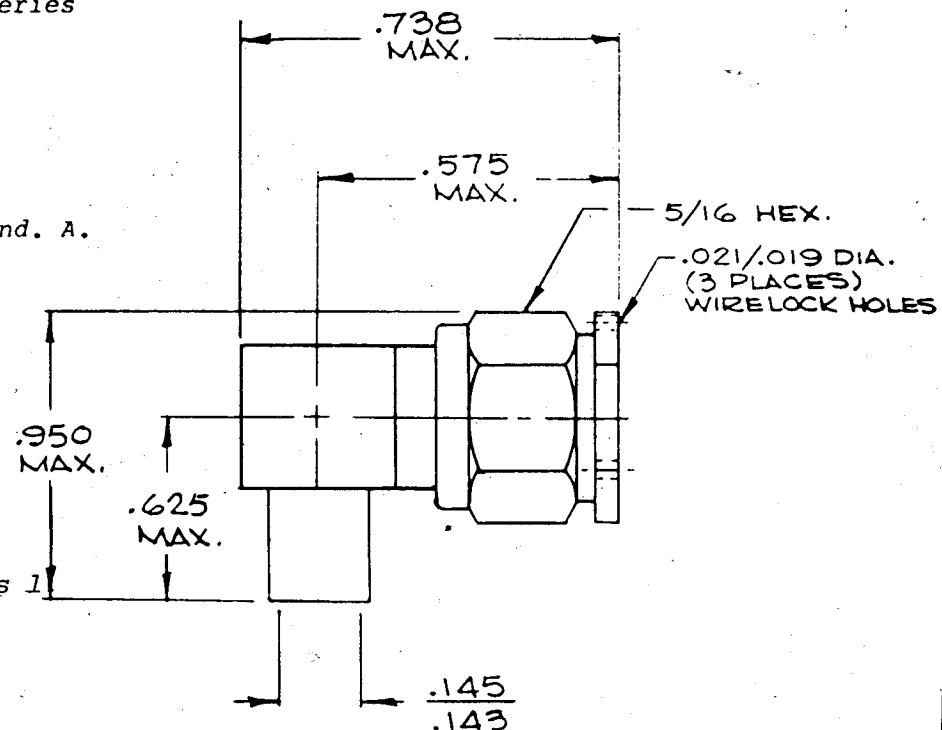
COUPLING NUT...Passivate per QQ-P-35A, Type 1.

CONTACT.....Gold per Mil-G-45204, Type 1, Grade C, Class 2; over Copper per Mil-C-14550, Class 4.

LOCK RING.....None.

4. CABLE ASSEMBLY INSTRUCTIONS: Per S/M 300-80-576.

5. CONNECTOR ACCOMMODATES .141 Dia. Semi-Rigid Cable.



SYM	DESCRIPTION	DATE	APPR	UNLESS OTHERWISE SPECIFIED			SOLITRON/MICROWAVE		REF.
-	REL.DCN F-10243	7/86	D	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			PORT SALERNO, FLORIDA		ENGINEERING DATA DRAWING
				DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONAL ANGULAR .X ± .030 .X' ± 1'0" .XX ± .015 ± 1/64 .X'X' ± 15° .XXX ± .005			MATERIAL		TITLE
							FINISH		SMA R/A PLUG FOR .141 DIA. SEMI-RIGID CABLE
							AREA		
				DRAWN R.P.A. DATE 12-10-85			SCALE	CODE IDENT NO.	SIZE
				CHECKED DATE			-	95077	A
				APPROVED D DATE 2-26-86					DRAWING NO. SHT. 1 OF 2
									M39012/80-3008

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S/M DESIGN STANDARDS

DRAWING NO.

M39012/80-300 8

REQUIREMENTS	RATINGS	REQUIREMENTS	RATINGS
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 Method 204 Cond. D (20G's)
Frequency Range (ghz)	DC - 12.4	Shock	MIL-STD-202 Method 213 Cond. I (100G's)
Voltage Rating (max. vrms)	500	Temperature Cycling	MIL-STD-202 Method 107 - Cond. B (-65°C to +115 ° C)
Temperature Rating (degrees centigrade) 2)	-65° to + 105°	Corrosion	MIL-STD-202 Method 101 Cond. B (48 Hrs.)
VSWR (max.)	1.10 + .010 x FGHz	Moisture Resistance	MIL-STD-202 Method 106 Less Step 7b
Insertion Loss (dB max.)	.05 x $\sqrt{\text{FGHz}}$	Barometric Pressure (Altitude)	MIL-STD-202 Method 105 - Cond. C (70,000 ft) (375 vrms)
RF Leakage (min. dB down)	90 dB-FGHz	Hermeticity	N/A
RF High Potential (max. vrms)	1000 at 5MHz	CAPTIVATION: Center Contact (Min. Axial Force)	6.0 lbs.
Dielectric Withstanding Voltage (max. vrms)	1500		
Insulation Resistance (min. megohms)	5000		
Contact Resistance: Center Contact (max. milliohms) Outer Contact (max. milliohms)	4.0 2.0		
Center Contact Axial Forces: Insertion (max. ounces) Withdrawal (min. ounces)	N/A		
Connector Durability (min. cycles)	500		
Connector Engagement & Disengagement (max. inch lbs.)	2.0		

REMARKS: 1) Recommended Mating Torque:
2) Connector is derated from + 165°C When mated with cable specified.

TITLE: SMA R/A PLUG FOR .141 DIA.
SEMI-RIGID CABLE

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

SHT. 2 of 2

DRAWING NO.
M39012/80-300 8

REV.
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