

M55339/29-30001

NOTES:

1. MATING:

Interface dimensions per Mil-A-55339/SMA Series and Solitron/Microwave MD-107.

2. MATERIALS:

Body and Coupling Nut: Stainless Steel per AMS-5640, Type 303, Cond. A.

Contact and Lock Rings: Beryllium Copper per QQ-C-530, Cond. HT, Alloy 173.

Insulator: Teflon per Mil-P-19468 and L-P-403, Type I.

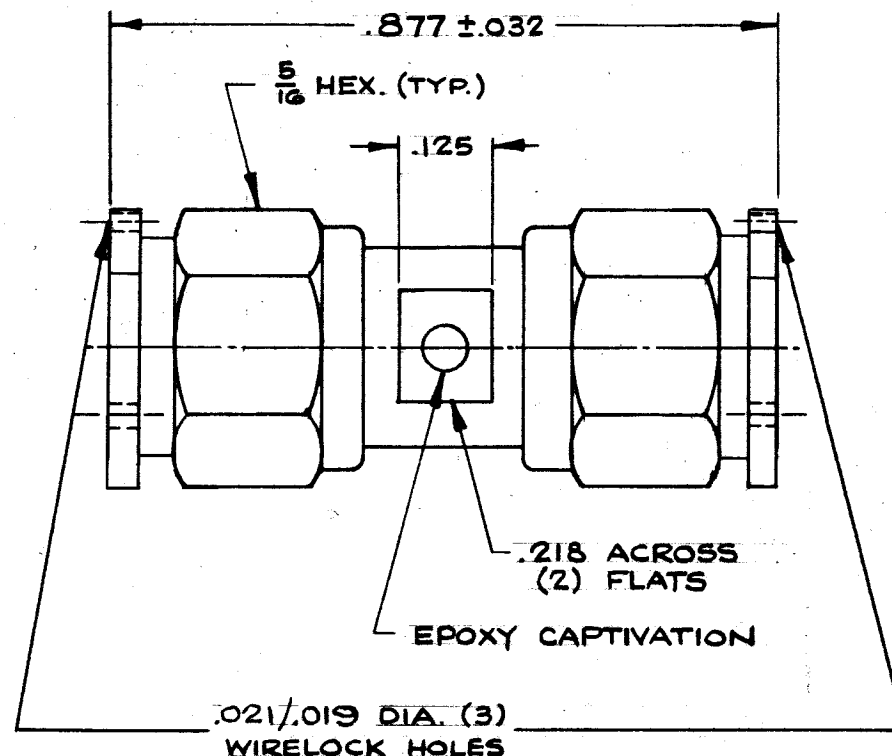
Gaskets: Silicone Rubber per ZZ-R-765, Class IIB, Grade 50 or 60.

3. FINISH:

Body and Coupling Nut: Passivate per QQ-P-35A, Type I.

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

Lock Ring: None.



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED	SOLITRON/MICROWAVE			REF.
-	REL. F-10378	4/86		1. REMOVE ALL BURRS	PORT SALERNO, FLORIDA			ENGINEERING DATA DRAWING
				2. BREAK ALL CORNERS & EDGES .005 R MAX.	MATERIAL			TITLE
				3. CHAMFER 1ST & LAST THREADS 45°	FINISH			SMA PLUG TO PLUG ADAPTOR
				4. SURFACE ROUGHNESS 63 ✓ MIL-STD-10	SCALE			DRAWING NO.
				5. DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN T.I.R.	CODE IDENT. NO.			M55339/29-30001
				6. ALL DIMENSIONS ARE AFTER PLATING	SIZE			SHEET 1 OF 2
				DIMENSIONS ARE IN INCHES TOLERANCES	DRAWN <u>ND</u> DATE 4-15-86			
				DECIMALS FRACTIONAL ANGULAR	CHECKED DATE			
				.X ± .030 .XX ± .015 .XXX ± .005	APPROVED DATE			
				± 1/64 X'X' ± 15'	95077 A			

ENG. FILE COPY

"DESIGN CRITERIA"

M55339/29-30001

REQUIREMENT	RATING	REQUIREMENT	RATING
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-18.0	Shock	MIL-STD-202 method 213 Cond. I (100G's)
Voltage Rating (max. vrms)	335	Temperature Cycling	MIL-STD-202 method 107 - Cond. B (-65 ^o C To +200 ^o C)
Temperature Rating (degrees centigrade)	-65 To +165	Corrosion	MIL-STD-202 method 101 Cond. B (48 hrs.)
VSWR (max.)	1.03 +.005xFGHz	Moisture Resistance	MIL-STD-202 method 106 less step 7b
Insertion Loss (dB max.)	.04x√FGHz	Barometric Pressure (Altitude)	MIL-STD-202 method 105 Cond. C (70,000 ft.) (250 vrms)
RF Leakage (min. dB down)	60 dB-FGHz	Hermeticity	N/A
RF High Potential (max. vrms)	670 AT 5MHz	Captivation Center Contact (Min. Axial Force) (Min. Radial Torque)	10 Lbs. 4 In. Ounces
Dielectric Withstanding Voltage (max. vrms)	1000		
Insulation Resistance (min. megohms)	5000		
Contact Resistance			
Center Contact (max. milliohms)	6.0		
Outer Contact (max. milliohms)	2.0		
Center Contact Axial Forces			
Insetion (max. ounces)	N/A		
Withdrawal (min. ounces)			
Connector Durability (min. cycles)	500		
Connector Engagement & Disengagement (max. inch lbs.)	2.0		

REMARKS: 1.) RECOMMENDED MATING TORQUE: 7-10 INCH POUNDS.

TITLE

SMA PLUG TO PLUG
ADAPTOR

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

SHEET 2 OF 2

DRAWING NO.

M55339/29-30001

REV.