

## NOTES:

1. MATING:

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

2. MATERIALS:

Bodies, Coupling Nut: Stainless Steel per QQ-S-764, Class 303, Cond. A.

Contact (Plug): Brass per QQ-B-626, Comp. 22,  $\frac{1}{2}$  H.

Contact (Jack): Beryllium Copper per QQ-C-530, Cond. HT.

Lock Ring: Beryllium Copper per QQ-C-530, Cond.  $\frac{1}{2}$  H, Heat treated to Cond.  $\frac{1}{2}$  HT.

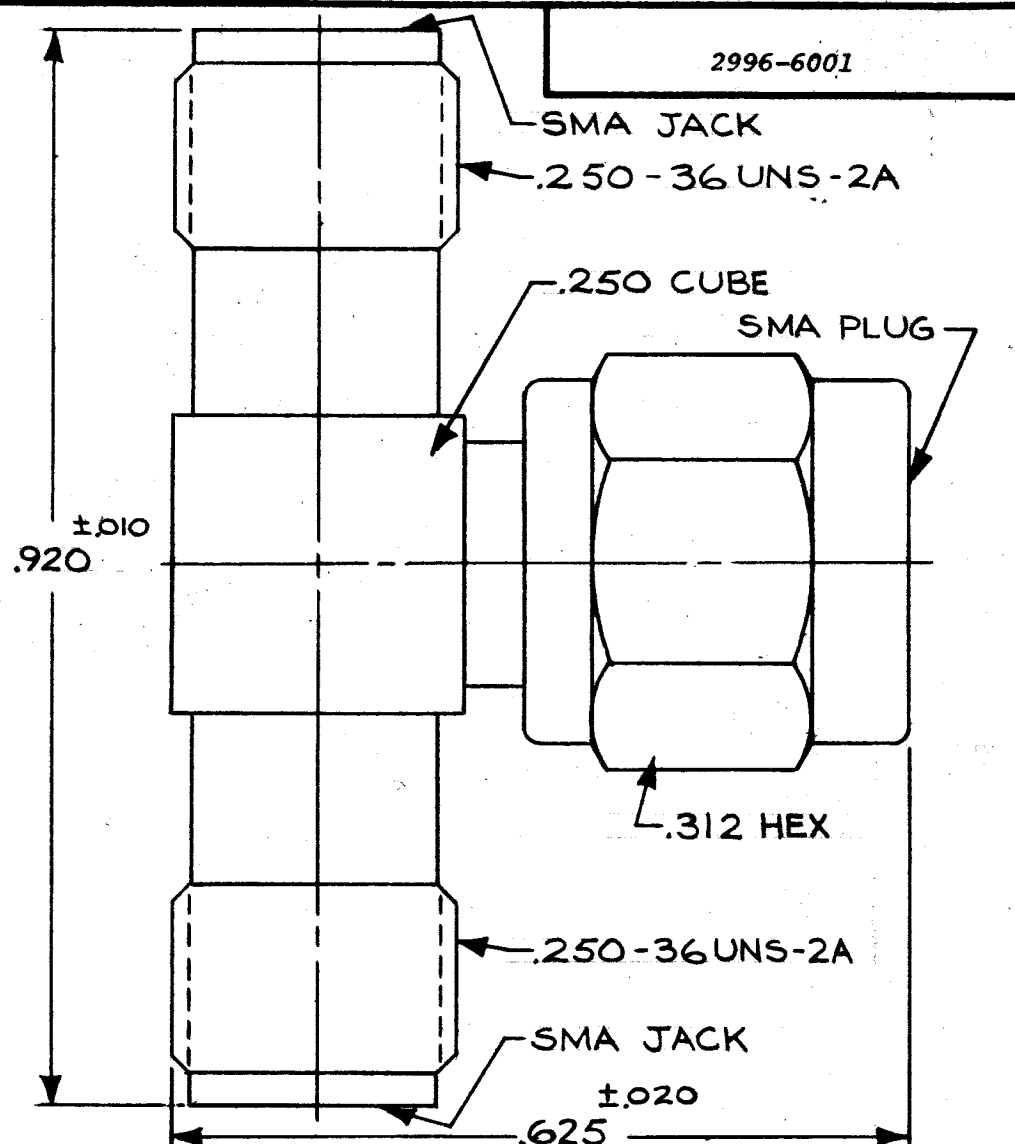
Dielectric: Teflon per Mil-P-19468.

Gasket: Silicone Rubber per ZZ-R-765.

3. FINISH:

Body, Coupling Nut: Gold per Mil-G-45204, Type II, Class I; over Nickel (Electroless) per Mil-C-26074, Class 1.

Contacts: Gold per Mil-G-45204, Type II, Class 2; over Copper per Mil-C-14550, Class 4.



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED	SOLITRON/MICROWAVE		ENGINEERING DATA DRAWING	
—	REL. DCN F-05493	12-76	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		TITLE	
				DIMENSIONS ARE IN INCHES TOLERANCES	MATERIAL		SMA, JACK-PLUG-JACK, TEE ADAPTER	
				DECIMALS FRACTIONAL ANGULAR .X ± .030 .XX ± .015 ± 1/64 X° ± 1° .XXX ± .005 X'X' ± 15'	SEE NOTE 2		SHEET 1 OF 2	
				DRAWN RPRATT DATE 11-30-76	SCALE	CODE IDENT. NO.	SIZE	DRAWING NO.
				CHECKED DATE	CH	95077	A	2996-6001
				APPROVED DGG DATE 12-3-76				

REQUIREMENT	RATING	
Nominal Impedance (ohms)	50	
Frequency Range (ghz)	DC-18.0	
Voltage Rating (max. vrms)	335	
Temperature Rating (degrees centigrade)	-65 To +165	
VSWR (max.)	3.0	
Insertion Loss (dB max.)	1.0	
RF Leakage (min. dB down)	100 dB-FGHZ	
RF High Potential (max. vrms)	670 AT 5MHZ	
Dielectric Withstanding Voltage (max. vrms)	1000	
Insulation Resistance (min. megohms)	5000	
Contact Resistance		
Center Contact (max. milliohms)	6.0	
Outer Contact (max. milliohms)	4.0	
Center Contact Axial Forces	FEMALE	MALE
	SOCKET	PIN
Insertion (max. ounces)	48	N/A
Withdrawal (min. ounces)	2	
Connector Durability (min. cycles)	500	
Connector Engagement & Disengagement (max. inch lbs.)	2.0	

REQUIREMENT	RATING
Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Shock	MIL-STD-202 method 213 Cond. I (100G's)
Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-65°C To + 200°C)
Corrosion	MIL-STD-202 method 101 Cond. B (48 hrs.)
Moisture Resistance	MIL-STD-202 method 106 less step 7b
Barometric Pressure (Altitude)	MIL-STD-202 method 105 Cond. C (70,000 ft.) ( 250 vrms)
Hermeticity	N/A

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