

2903-6035

NOTES:

1. MATING:

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

2. MATERIALS:

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

Contact: Brass per QQ-B-626, $\frac{1}{2}$ H, Alloy 360.

Lock Ring: Beryllium Copper per QQ-C-530, Alloy 173, Cond. H.

Crimp Ring: Copper per WW-T-799, Type K, Form A, Class 1.

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

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

Shrink Tubing: SCL Polyolefin per Mil-I-23035/4, Class 1.

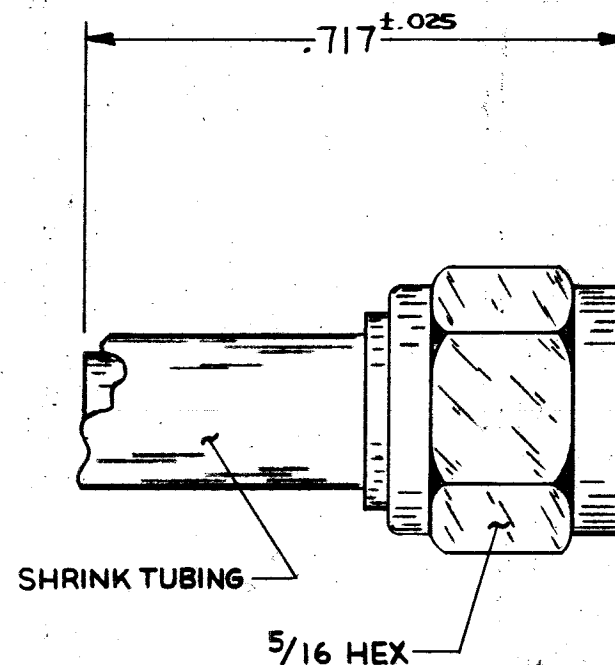
3. FINISH:

Body and Coupling Nut: Gold per Mil-G-45204, Type II, Grade C, Class 1; over Nickel per Mil-C-26074, Class 1.

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

4. Connector Accommodates RG-316/U DBR, Times Wire RD 179, and Micro-dot 275-3937-0000.

5. Cable Assembly Instructions: per Solitron/Microwave Drawing 300-80-122.



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED	SOLITRON/MICROWAVE			ENIGNEERING DATA DRAWING	
-	REL. DCN F 6470	5/78	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	
A	Rev. F-8612	10/81	Q20	DIMENSIONS ARE IN INCHES TOLERANCES	MATERIAL			SMA PLUG CRIMP/SOLDER FOR RG-316/U DBR, TIME WIRE RD 179 and MICRO-DOT 275-3937-0000	
				DECIMALS FRACTIONAL ANGULAR .X ± .030 .XX ± .015 .XXX ± .005	FINISH			DRAWING NO.	
				± 1/64	SCALE			2903-6035	
				X'X' ± 15'	CODE IDENT. NO.			SHEET 1 OF 2	
				DRAWN <i>Lindsay</i> DATE 5-18-78	SIZE				
				CHECKED DATE	95077			A	
				APPROVED DGG DATE 5/19/78					

REQUIREMENT	RATING	REQUIREMENT	RATING
Nominal Impedance (ohms)	50	Vibration	MIL-STD-202 method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-18.0		
Voltage Rating (max. vrms)	250		
Temperature Rating (degrees centigrade)	-65 To +165	Shock	MIL-STD-202 method 213 Cond. I (100G's)
VSWR (max.)	1.07 +.010xFGHz	Temperature Cycling	MIL-STD-202 method 102 - Cond. C (-65°C To + 200°C)
Insertion Loss (dB max.)	.04x√FGHz		
RF Leakage (min. dB down)	100dB-FGHz	Corrosion	MIL-STD-202 method 101 Cond. B (48 hrs.)
RF High Potential (max. vrms)	500 AT 5MHz		
Dielectric Withstanding Voltage (max. vrms)	750	Moisture Resistance	MIL-STD-202 method 106 less step 7b
Insulation Resistance (min. megohms)	5000		
Contact Resistance		Barometric Pressure (Altitude)	MIL-STD-202 method 105 Cond. C (70,000 ft.)(190 vrms)
Center Contact (max. milliohms)	3.0		
Outer Contact (max. milliohms)	2.0	Hermeticity	N/A
Center Contact Axial Forces			
Insertion (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 CRIMP/SOLDER for RG-316/U DBR
TIME WIRE RD 179, and MICRO DOT 275-3937-0000

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

SHEET 2 OF 2

DRAWING NO.
2903-6035

REV
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