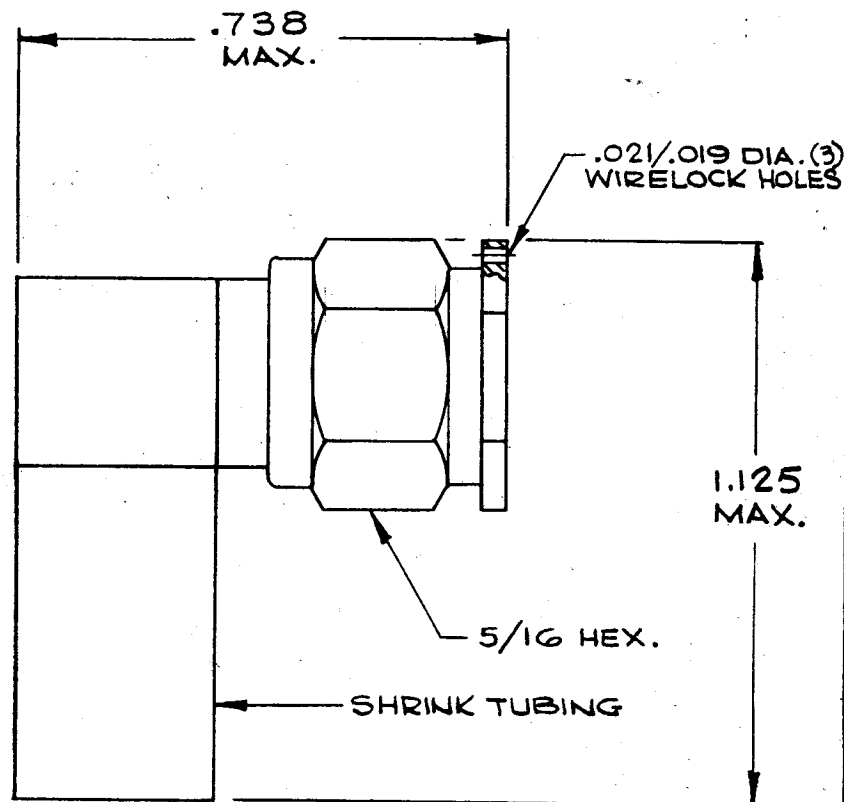


NOTES:

1. MATING: Interface dimensions per Mil-C-39012/SMA Series and Solitron/Microwave MD-107.
2. MATERIALS:
 BODY, CAP &
 COUPLING NUT...Stainless Steel per AMS-5640, Type 303, Cond. A.
 CONTACT & LOCK
 RING.....Beryllium Copper per QQ-C-530, Cond. H., Alloy 173.
 CRIMP RING....Copper per WW-T-799, Type K, Form A, Class 1.
 INSULATOR.....Teflon per Mil-P-19468 & L-P-403, Type 1.
 GASKET.....Silicone Rubber per ZZ-R-765, Class IIB, Grade 50 or 60.
 SHRINK TUBING...SCL Polyolefin per Mil-I-23053/4, Class 1.
3. FINISH:
 BODY & CAP....Gold per Mil-G-45204, Type 1, Grade C, Class 1;
 over Nickel per Mil-C-26074, Class 1.
 COUPLING NUT...Passivated 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.
 CRIMP RING....Silver with Iridite per QQ-S-365, Type II, Grade A.
 LOCK RING.....None.
4. CABLE ASSEMBLY INSTRUCTIONS: PER S/M 300-80-578
5. CONNECTOR ACCOMMODATES: RG 174, 179, 187, 188, & 316/U CABLES.
6. CENTER CONTACT CAPTIVATED.

ENG. FILE COPY

M39012/56-3007



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED 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		REF. ENGINEERING DATA DRAWING	
-	REL.DCNF.10275	3/86	RD		MATERIAL		TITLE	
					FINISH		SMA PLUG, R/A CUBE CRIMP ATTACHMENT FOR RG174,179,187, 188,316/U CABLES	
					AREA		DRAWING NO.	
					SCALE		M39012/56-3007	
					CODE IDENT. NO.		SHEET 1 OF 2	
					SIZE			
					95077		A	
					DATE 3-1-86			

ENG. FILE COPY		S/M DESIGN STANDARDS		DRAWING NO. M39012/56-3007	
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)	250	Temperature Cycling	MIL-STD-202 Method 107 - Cond. B (-65°C to + 200 ° C)		
Temperature Rating (degrees centigrade)	-65 ^o to + 165 ^o	Corrosion	MIL-STD-202 Method 101 Cond. B (48 Hrs.)		
VSWR (max.)	1.15 + 0.03 x FGHz	Moisture Resistance	MIL-STD-202 Method 106 Less Step 7b		
Insertion Loss (dB max.)	.15 x $\sqrt{\text{FGHz}}$	Barometric Pressure (Altitude)	MIL-STD-202 Method 105 - Cond. C (70,000 ft) (190 vrms)		
RF Leakage (min. dB down)	60 dB-FGHz				
RF High Potential (max. vrms)	500 at 5MHz	CAPTIVATION: Center Contact Min. Axial Force	6.0 lbs.		
Dielectric Withstanding Voltage (max. vrms)	750				
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: 7 - 10 Inch Pounds.					
TITLE: SMA PLUG R/A CUBE FOR RG 174, 316/U CABLES.		SOLITRON/MICROWAVE PORT SALERNO, FLORIDA		SHT. 2 of 2	DRAWING NO. M39012/56-3007
				REV.	