AF 28003

SF 2712-6001

NOTES:

1. MATING: Interface Dimensions per Mil-C-39012 SSMA Series and Solitron/Microwave MD-114.

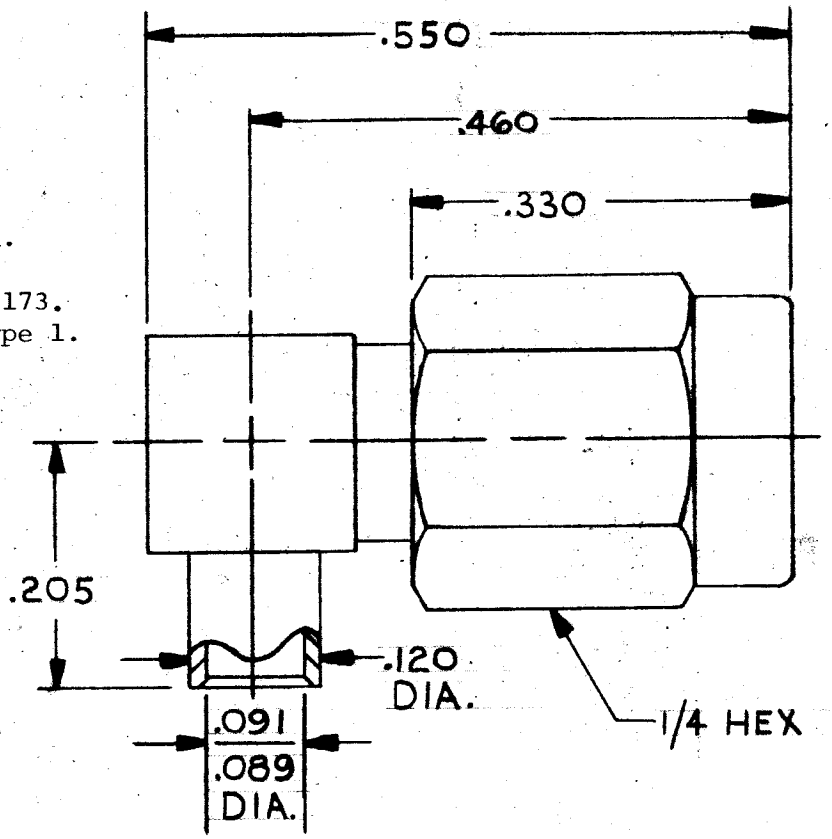
2. MATERIALS:

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, Cond. H., Alloy 173.
INSULATOR.....Teflon per AMS-3659B, Mil-P-19468 & L-P-403, Type 1.
GASKET.....Silicone Rubber per ZZ-R-765, Class IIB, Grade 50 - 60.

3. FINISH:

COUPLING NUT.....Passivate per QQ-P-35A, Type 1.
BODY ASSEMBLY & CAP.....Gold per Mil-G-45204, Type 1, Grade C, Class 1; over Nickel per Mil-C-26074, Class 1.
CONTACT.....Gold per Mil-G-45204, Type 1, Grade C, Class 1; over Copper per Mil-C-14550, Class 4.

4. CABLE ASSEMBLY INSTRUCTIONS: PER Solitron/Microwave 300-80-197.



SYM	DESCRIPTION	DATE	APPR
—	REL. DCNF-10553	9/86	ND

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

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
X ± .030	± 1/64	X° ± 1°0'
XX ± .015		
XXX ± .005		X°X' ± 15'

DRAWN J.R.G. DATE 9-18-86
CHECKED [illegible] DATE 9-19-86
APPROVED ND DATE 9-22-86

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

MATERIAL: SEE NOTE 2
FINISH: SEE NOTE 3
AREA: —

REF: ENGINEERING DATA DRAWING

TITLE: SSMA R/A CUBED PLUG TO .085 S.R. CABLE

SCALE: —
CODE IDENT NO.: 95077
SIZE: A
DRAWING NO.: SF 2712-6001
SHEET 1 OF 2

S/M DESIGN STANDARDS		DRAWING NO. SF2712-6001	
REQUIREMENTS	RATINGS	REQUIREMENTS	RATINGS
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)	250	Temperature Cycling	MIL-STD-202 Method 107 - Cond.B (-65°C to + 115° C)
Temperature Rating (degrees centigrade) *	-65° to + 105°	Corrosion	MIL-STD-202 Method 101 Cond. B (48 Hrs.)
VSWR (max.)	1.10 + .015 xFGHz	Moisture Resistance	MIL-STD-202 Method 106 Less Step 7b
Insertion Loss (dB max.)	.06 $x\sqrt{FGHz}$	Barometric Pressure (Altitude)	MIL-STD-202 Method 105 - Cond. C (70,000 ft)(125 vrms)
RF Leakage (min. dB down)	60 dB-FGHz		
RF High Potential (max. vrms)	670 at 5MHz		
Dielectric Withstanding Voltage (max. vrms)	500		
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	CAPTIVATION: Center Contact Min. Axial Force Min. Radial Torque	 6.0 lbs. 2.0 In. Ounces
Connector Engagement & Disengagement (max. inch lbs.)	2.0		

REMARKS: 1) Recommended Mating Torque: 6 - 8 Inch Pounds.

* Conector is Derated from + 165°C When Mated with Cable Specified.

TITLE: SSMA R/A CUBED PLUG TO .085 S. R. CABLE.	SOLITRON/MICROWAVE PORT SALERNO, FLORIDA	SHT. 2 of 2	DRAWING NO. SF2712-6001	REV. -