NOTES:

1. MATING:

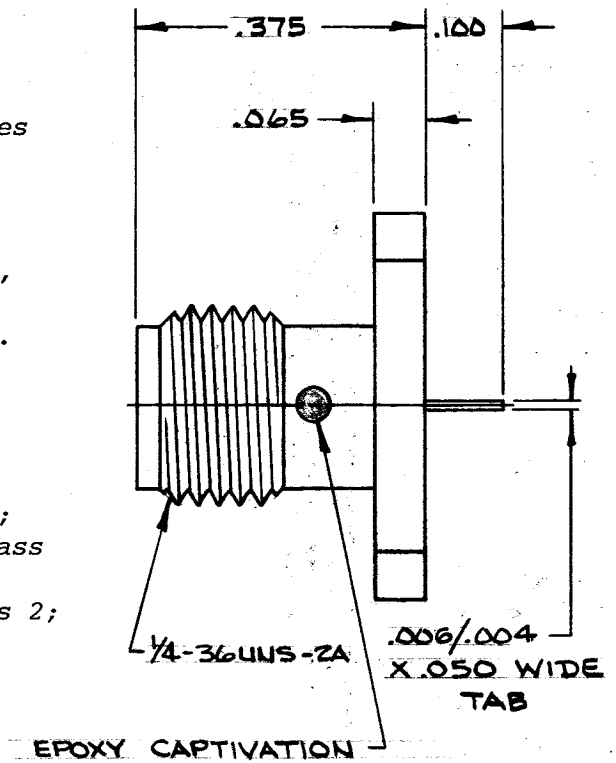
   Interface Dimensions per Mil-C-39012/SMA Series and Solitron/Microwave MD-107.

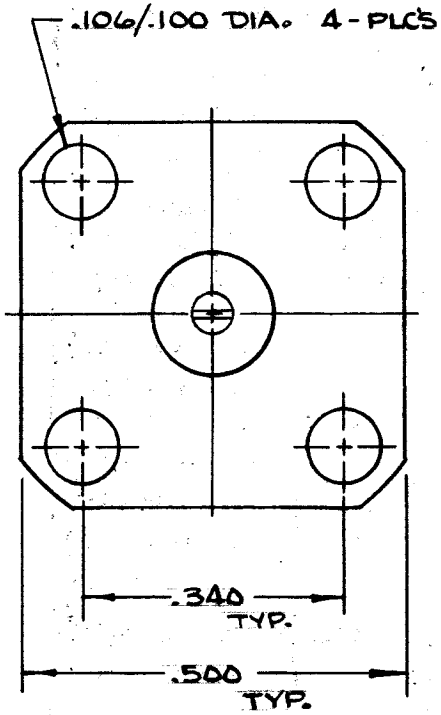
2. MATERIALS:

   Body: Stainless Steel per QQ-S-764, Type 303, Cond. A.
   Contact: Beryllium Copper per QQ-C-530, Cond. H.
   Insulator: Teflon per Mil-P-19468A.

3. FINISH:

   Body: Gold per Mil-G-45204, Type II, Class 1; over Nickel (Electroless) per Mil-C-26074, Class 1.
   Contact: Gold per Mil-G-45204, Type II, Class 2; over Copper per Mil-C-14550, Class 4.





SYM	DESCRIPTION	DATE	APPR.
A	REDRAWN F-05583	1-77	DGG

UNLESS OTHERWISE SPECIFIED
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

DIMENSIONS ARE IN INCHES
TOLERANCES

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

DRAWN ND DATE 1-11-77
CHECKED DATE
APPROVED DGG DATE 1-12-77

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

MATERIAL //

FINISH //

REF.
ENGINEERING DATA DRAWING

TITLE
SMA, JACK, PANEL
RECEPTACLE
CAPTIVE CONTACT

SCALE	CODE IDENT. NO.	SIZE
//	95077	A

DRAWING NO.
2950-6045

ENG FILE COPY

"DESIGN CRITERIA"

2950-6045

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.)	*	1.05+.005 xFGHz
Insertion Loss (dB max.)	*	.04 $x\sqrt{FGHz}$
RF Leakage (min. dB down)		60 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) Outer Contact (max. milliohms)		 3.0 2.0
Center Contact Axial Forces Insertion (max. ounces) Withdrawal (min. ounces)		 48.0 2.0
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
CAPTIVATION: CENTER CONTACT (lbs. min Axial Force) (in.oz.min.Radial Torque)	 10 .4

REMARKS: 1.) RECOMMENDED MATING TORQUE: 7-10 INCH POUNDS
*2.) WHEN PROPERLY TERMINATED IN A 50 OHM LOAD

TITLE				
SMA, JACK, PANEL RECEPTACLE CAPTIVE CONTACT	SOLITRON/MICROWAVE PORT SALERNO, FLORIDA	SHEET 2 OF 2	DRAWING NO. 2950-6045	REV A