TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
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E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date:

Product Name: DUAL SAW Filter 947.5 and 1842.5MHz SMD 3.8X3.8mm

TST Parts No.: TE1842-947EC

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Paul Ni

Approval by: Francis Chen

Date: Sep. 28. 2006

TST DCC
Release document

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Dual SAW Filter 947.5 and 1842.5 MHz

MODEL NO.: **TE1842-947EC** REV. NO.:2

A. MAXIMUM RATING:

1.Operating Temperature: -30°C ~ +85°C

2.Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Characteristics **(Filter1)**		Value			Note
		Min.	Typ.	Max.	
Center frequency **F_C**	MHz	-	947.5	-	-
Insertion loss(935~960 MHz) **I.L.**	dB	-	2.8	3.5	-
V.S.W.R(935~960 MHz)	dB	-	1.7	2.0	-
Ripple(935~960 MHz)	dB	-	1.1	1.5	-
Attenuation:(Reference level from 0 dB)					
1) D.C. ~ 800 MHz	dB	45	57	-	-
2) 890 ~ 915 MHz	dB	30	42	-	-
3) 980 ~ 1030 MHz	dB	25	28	-	-
4) 1100 ~ 1500 MHz	dB	40	49	-	-
5) 1500 ~ 2000 MHz	dB	25	28	-	-
Max. Input Power (935~960 MHz)	dBm		15		

Characteristics **(Filter2)**		Value			Note
		Min.	Typ.	Max.	
Center frequency **F_C**	MHz	-	1842.5	-	-
Insertion loss(1805 ~ 1880 MHz) **I.L.**	dB	-	3.1	4.0	-
V.S.W.R(1805 ~ 1880 MHz)	dB	-	1.4	2.3	-
Ripple(1805 ~1880 MHz)	dB	-	2.1	2.4	-
Attenuation:(Reference level from 0 dB)					
1) D.C. ~ 1500 MHz	dB	17	23	-	-
2) 1500 ~ 1700 MHz	dB	20	23	-	-
3) 1710 ~ 1785 MHz	dB	11	19	-	-
4) 1920 ~ 1980 MHz	dB	20	27	-	-
5) 2100 ~ 2600 MHz	dB	23	27	-	-
6) 2600 ~ 3000 MHz	dB	22	26		
7) 3000 ~ 3760 MHz	dB	15	18		
Max. Input Power(1805~1880MHz)	dBm		13		

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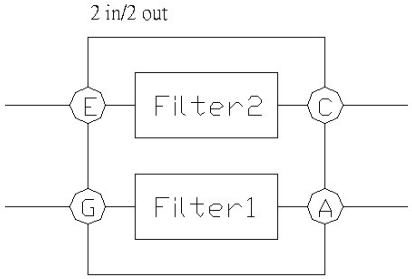
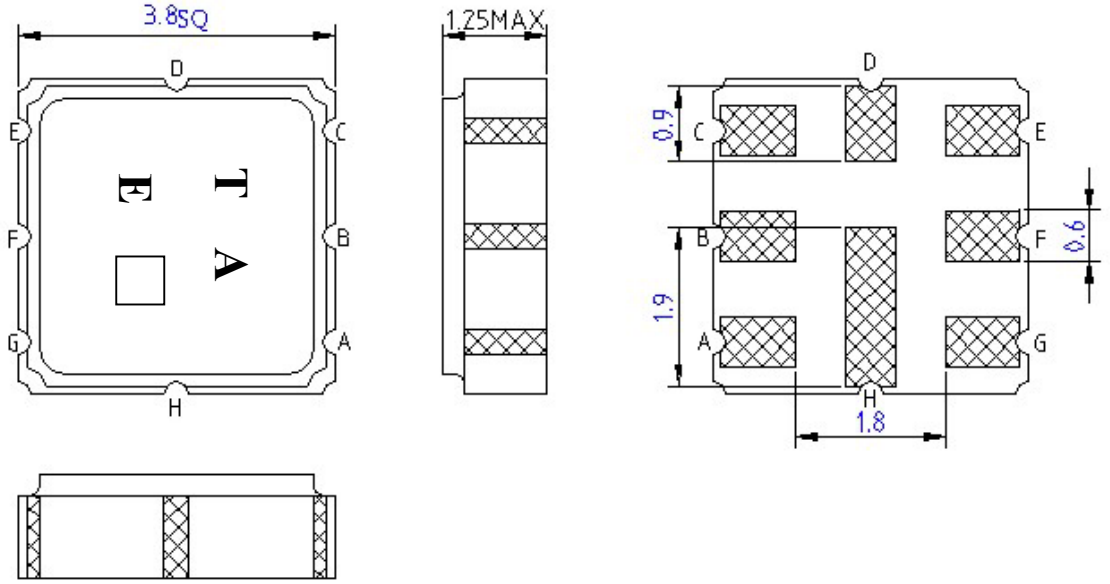
C. Internal block diagram:



D.OUTLINE DRAWING:



G: FILTER1 INPUT

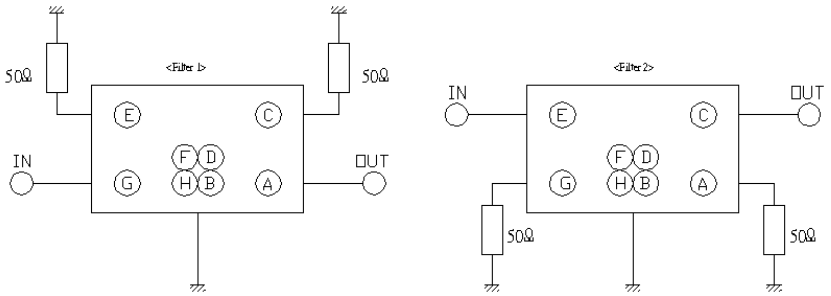
A: FILTER1 OUTPUT

E: FILTER2 INPUT

C: FILTER2 OUTPUT

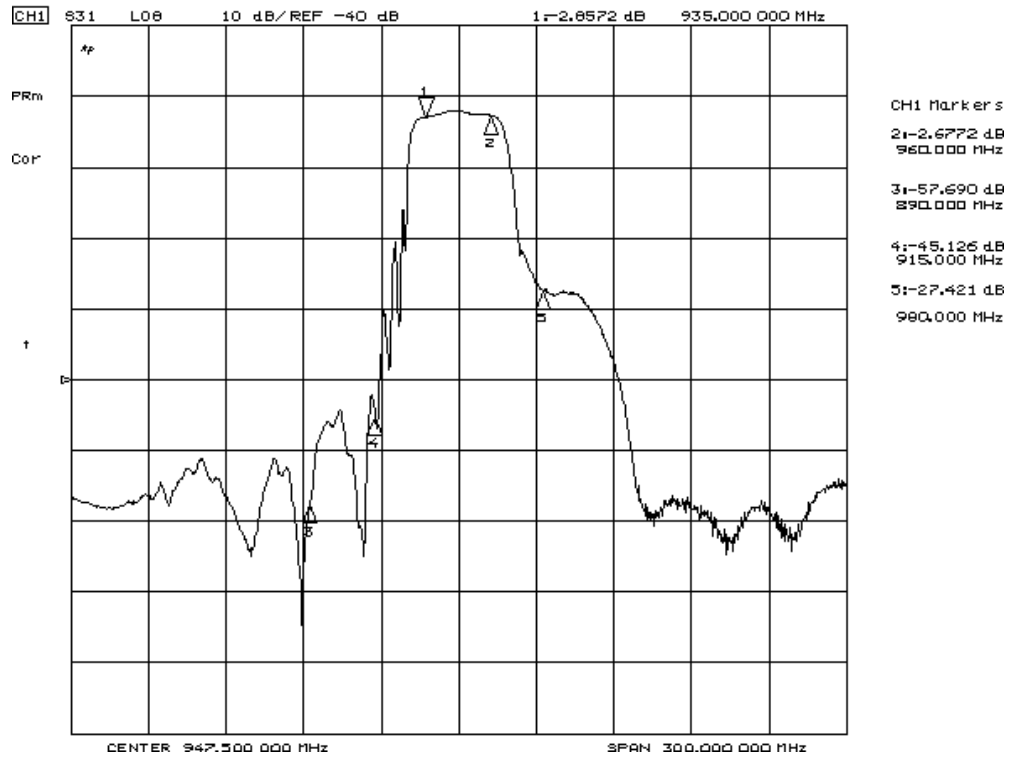
B,D,F,F: GROUND

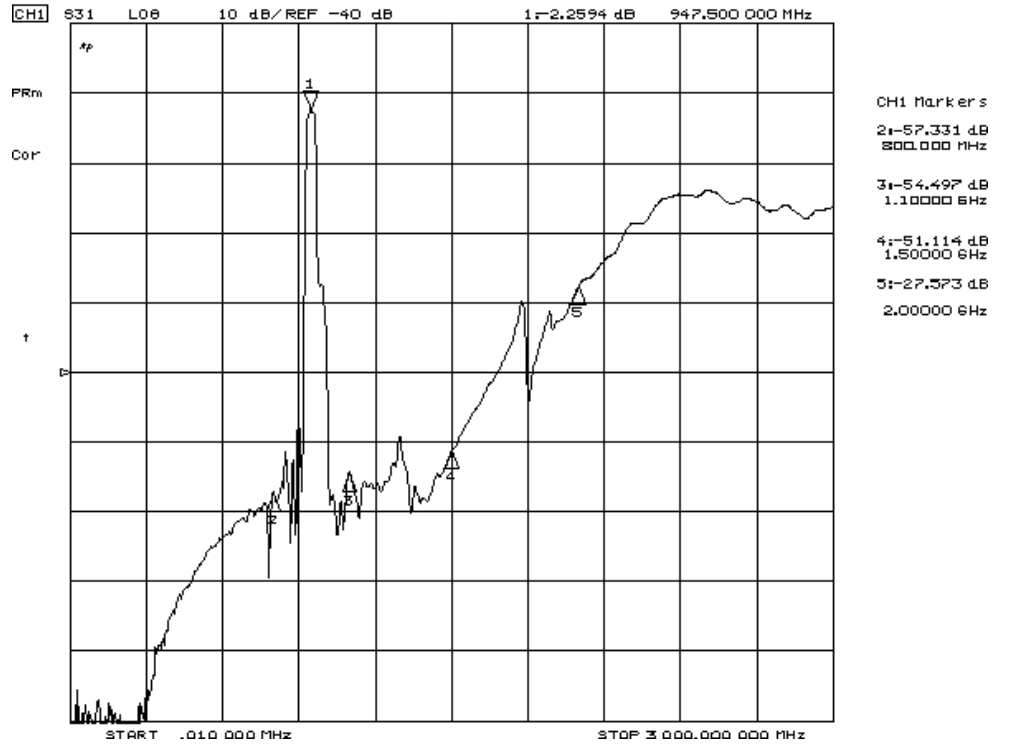
E. MEASUREMENT CIRCUIT:



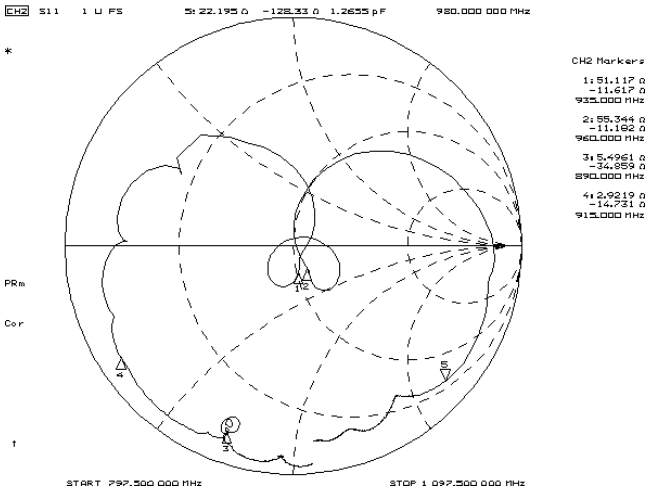
F.FREQUENCY CHRACTERISTICS:

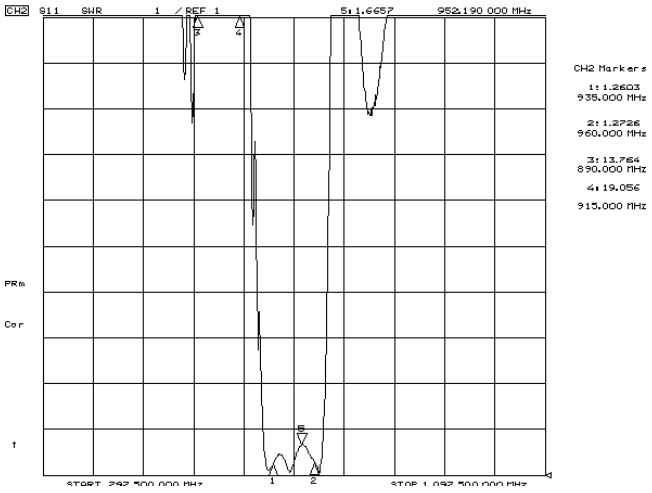
1. wideband response(Filter 1):



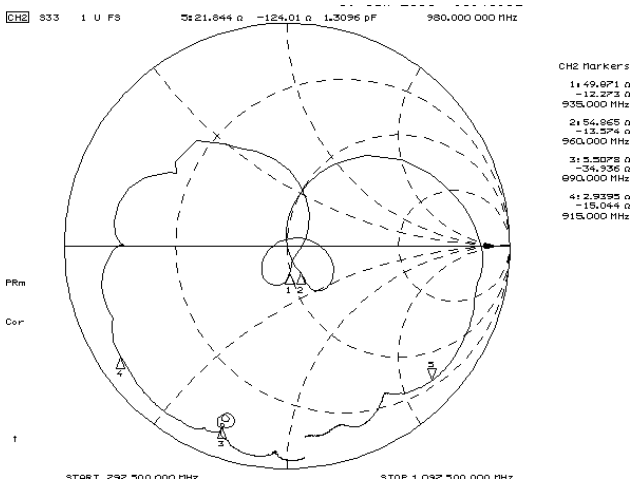


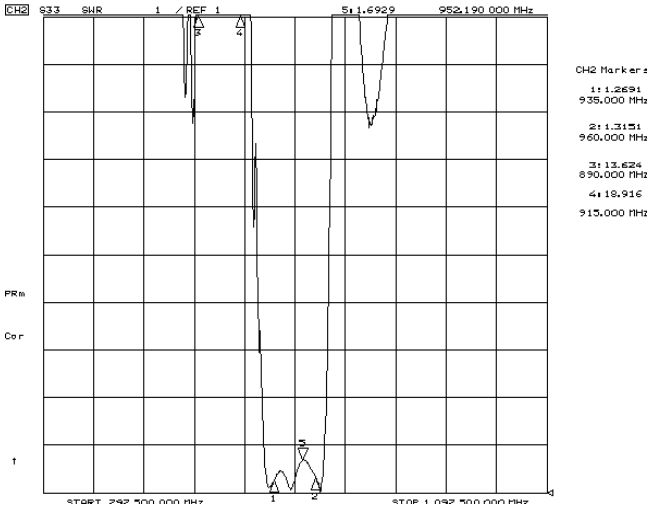
2. Smith chart and VSWR of S11(Filter 1):



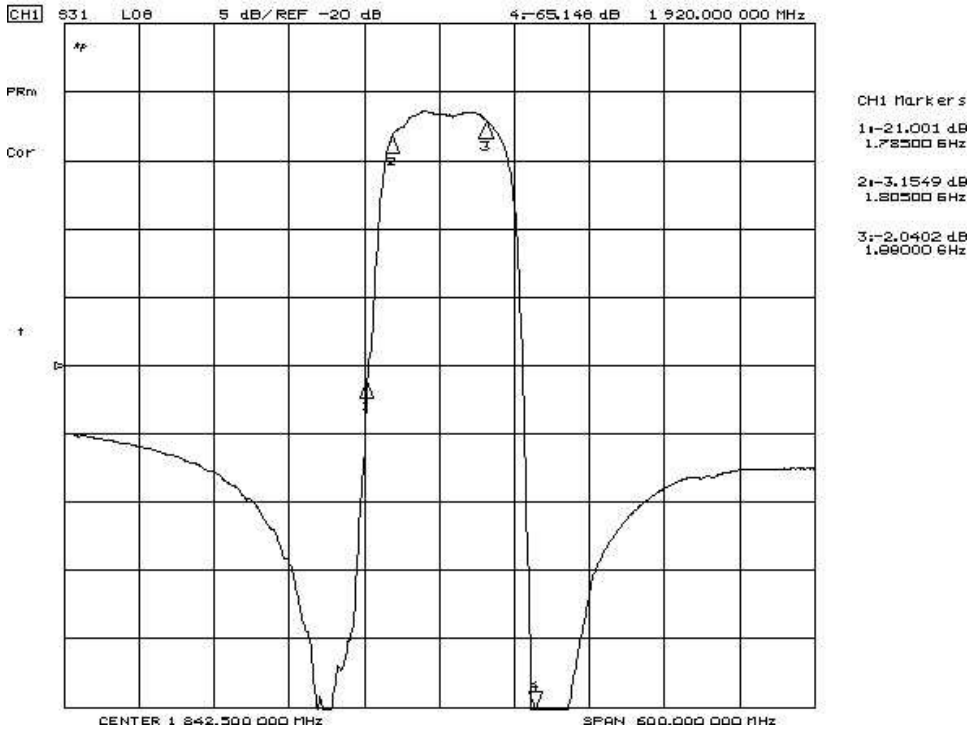


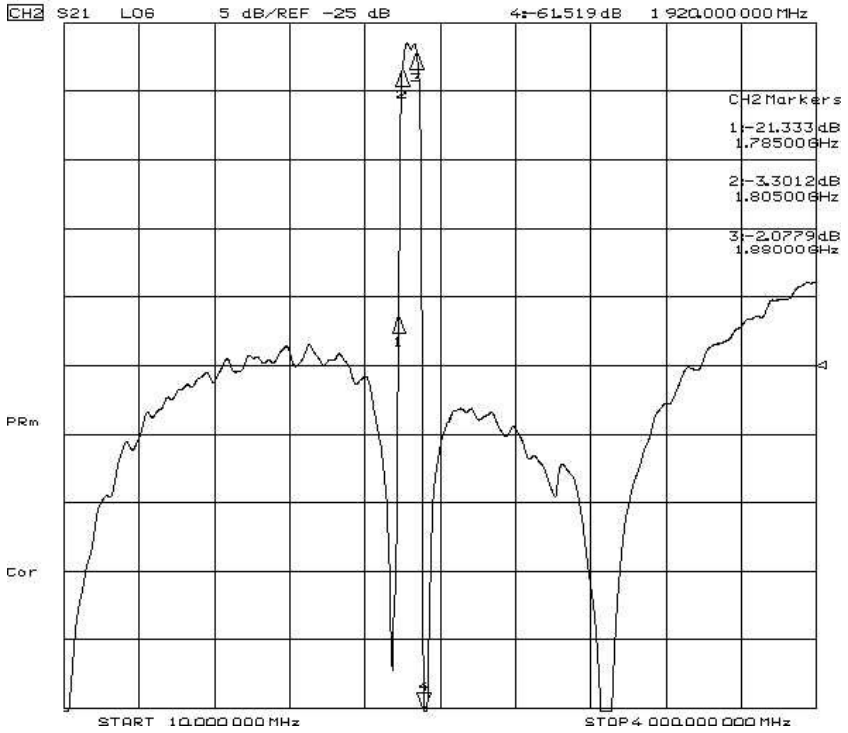
3. Smith chart and VSWR of S22(Filter 1):



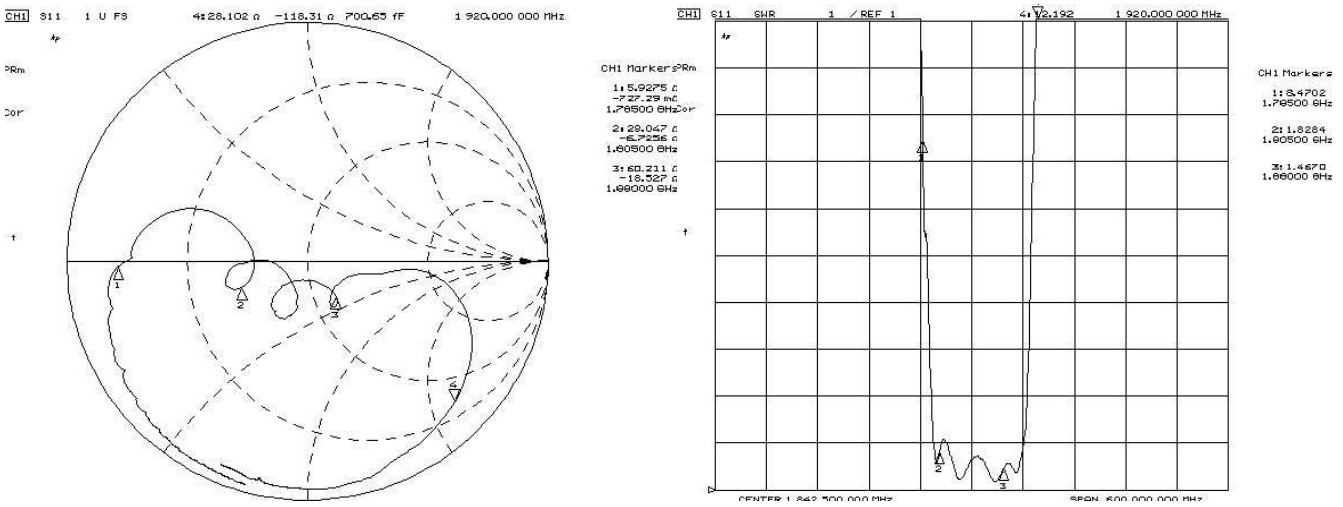


1. wideband response(Filter 2):

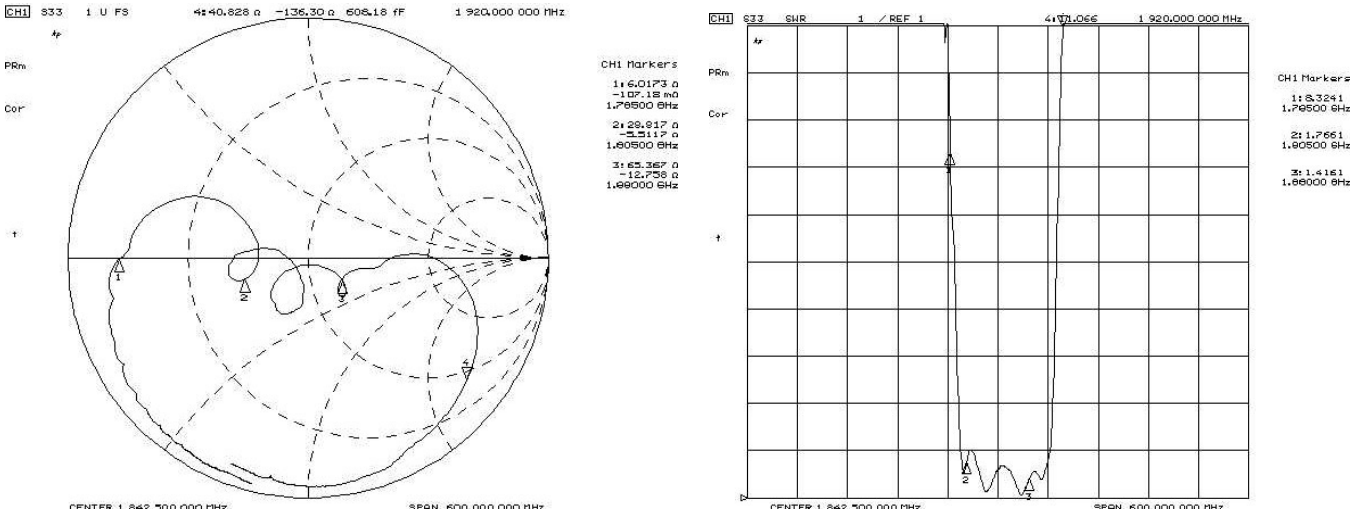




2. Smith chart and VSWR of S11(Filter 2):

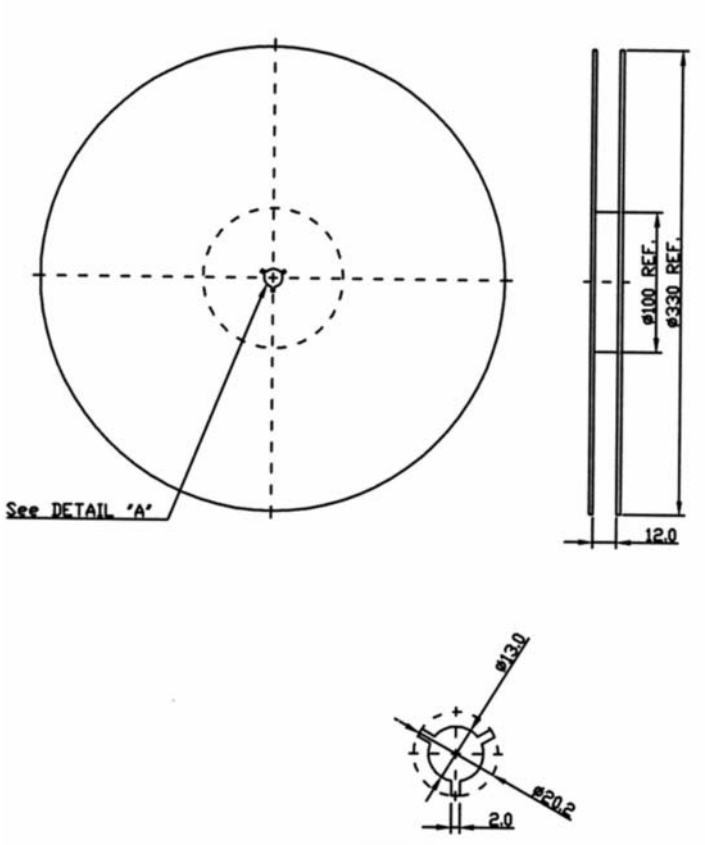


3. Smith chart and VSWR of S11(Filter 2):



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION