



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 2140MHz SMD 2.5x2.0 mm

TST Parts No.:TA0384A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Elvis Chiu

Approval by:_____Francis Chen

Date:_____2006/2/23



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SAW Filter 2140 MHz

MODEL NO.: TA0384A

REV. No.: 2

A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +85°C
2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Singled to Balanced operation

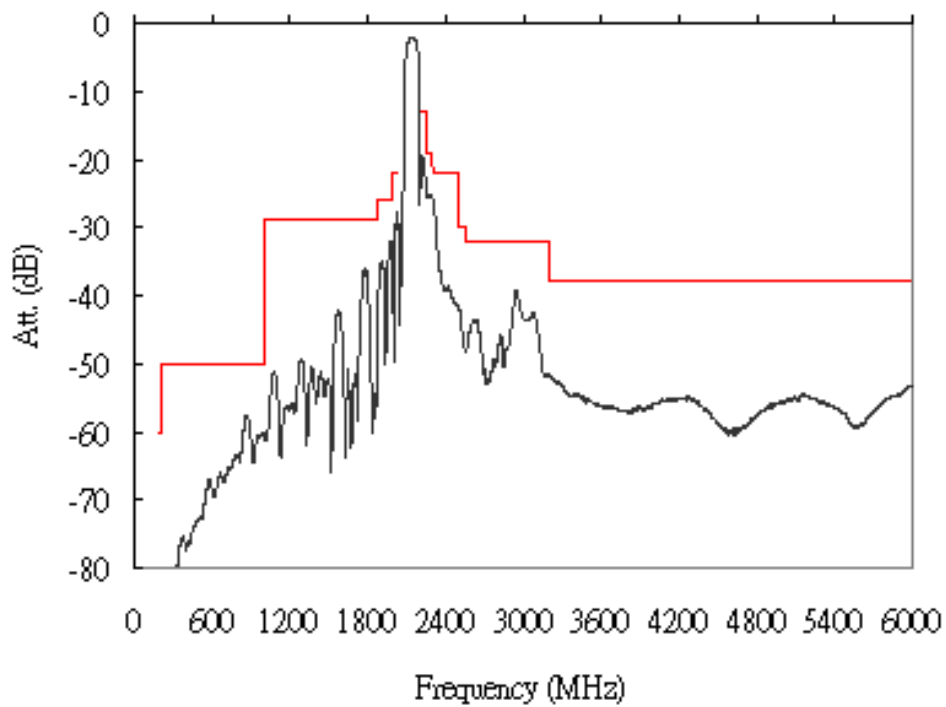
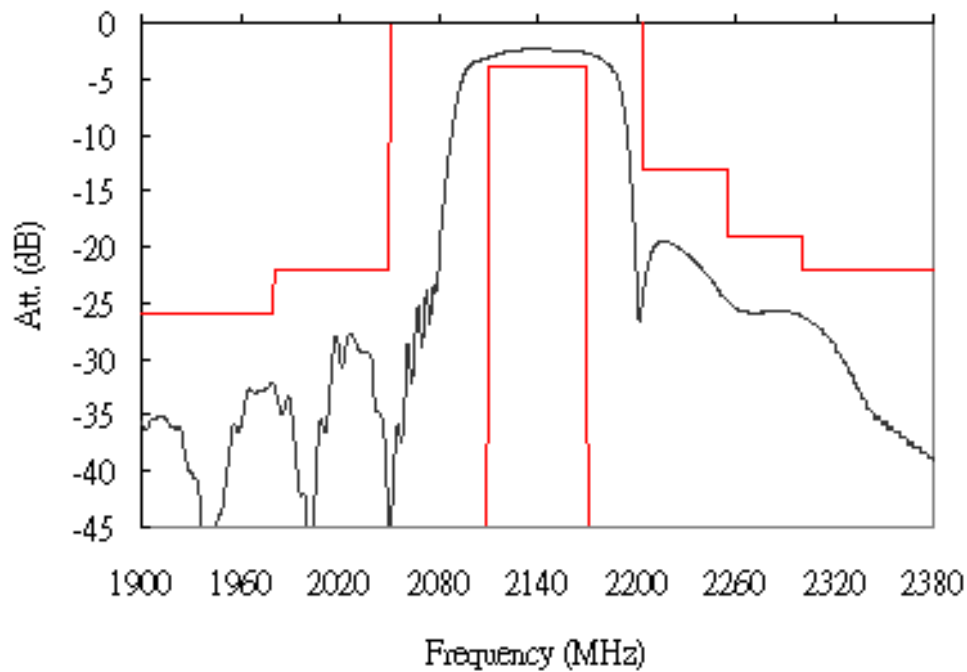
Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 200 \Omega // 18 \text{ nH}$

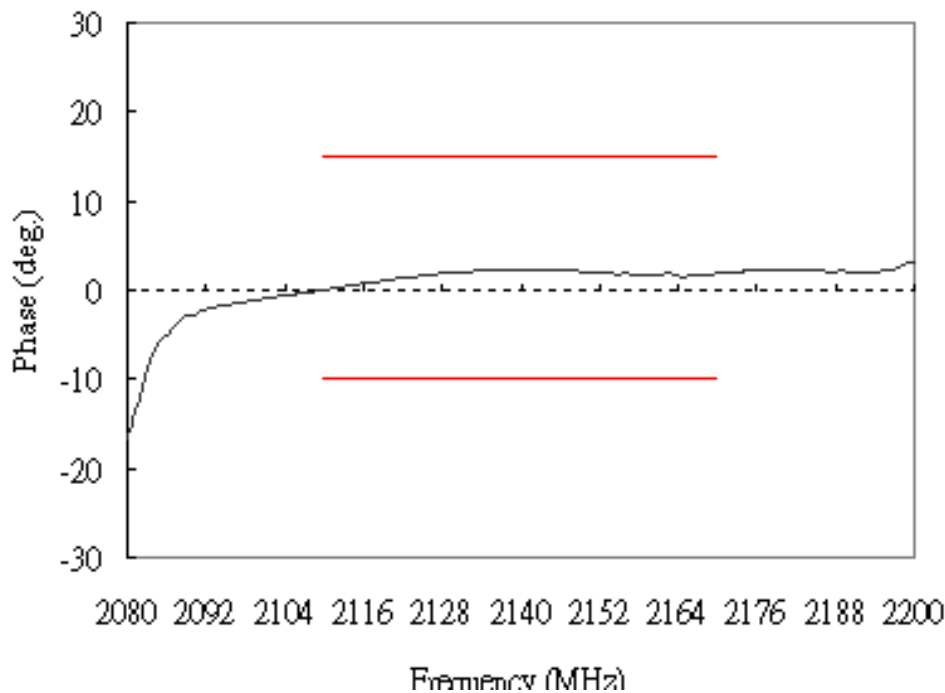
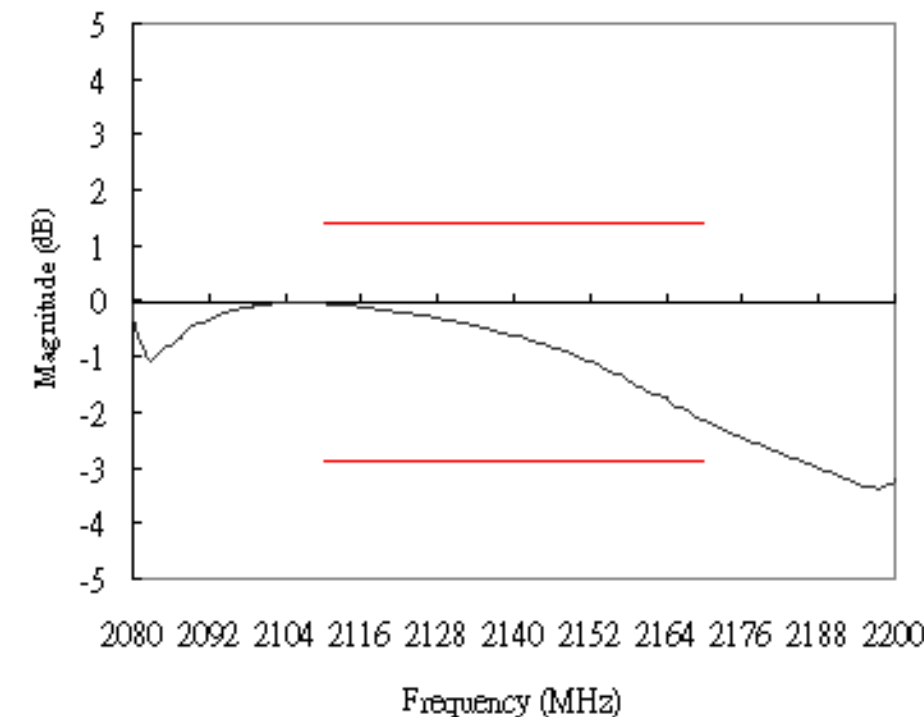
Item	Value			Unit
	Min.	Typ.	Max.	
Center frequency F_c	-	2140	-	MHz
Insertion loss 2110 ~ 2170 MHz I.L.	-	3.1	4.1	dB
Ripple 2110 ~ 2170 MHz	-	0.9	1.8	dB
Input VSWR 2110 ~ 2170 MHz	-	1.7	2.4	
Input VSWR 2110 ~ 2170 MHz	-	1.8	2.4	
Attenuation:(Reference level from 0 dB)				
180 ~ 200 MHz	60	85	-	dB
200 ~ 1000 MHz	50	58	-	dB
1000 ~ 1880 MHz	29	36	-	dB
1880 ~ 1980 MHz	26	32	-	dB
1980 ~ 2050 MHz	22	28	-	dB
2210 ~ 2255 MHz	13	19	-	dB
2255 ~ 2300 MHz	19	25	-	dB
2300 ~ 2490 MHz	22	26	-	dB
2490 ~ 2550 MHz	30	39	-	dB
2550 ~ 3200 MHz	32	36	-	dB
3200 ~ 6000 MHz	38	49	-	dB
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) 2110 ~ 2170 MHz	-2.9	0	1.4	dB
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) 2110 ~ 2170 MHz	-10	0	15	degree

C. Frequency Characteristics :

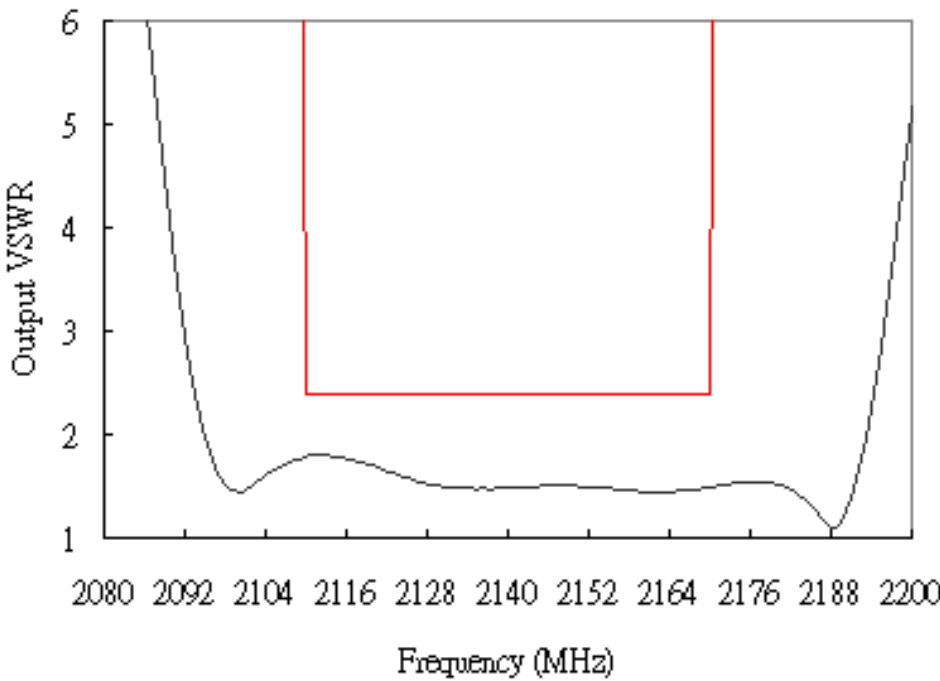
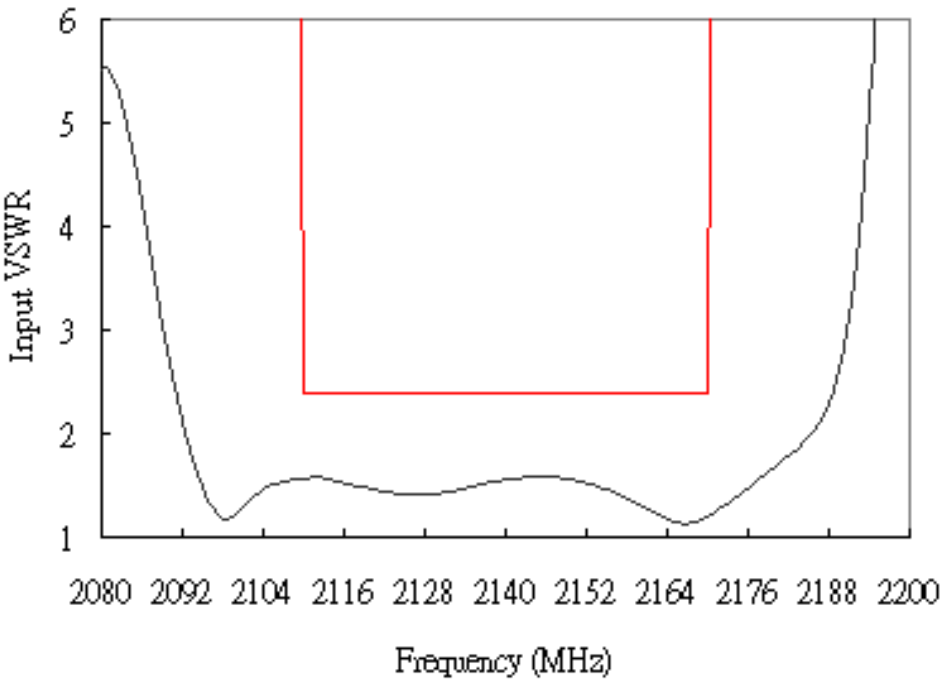
Transfer Function



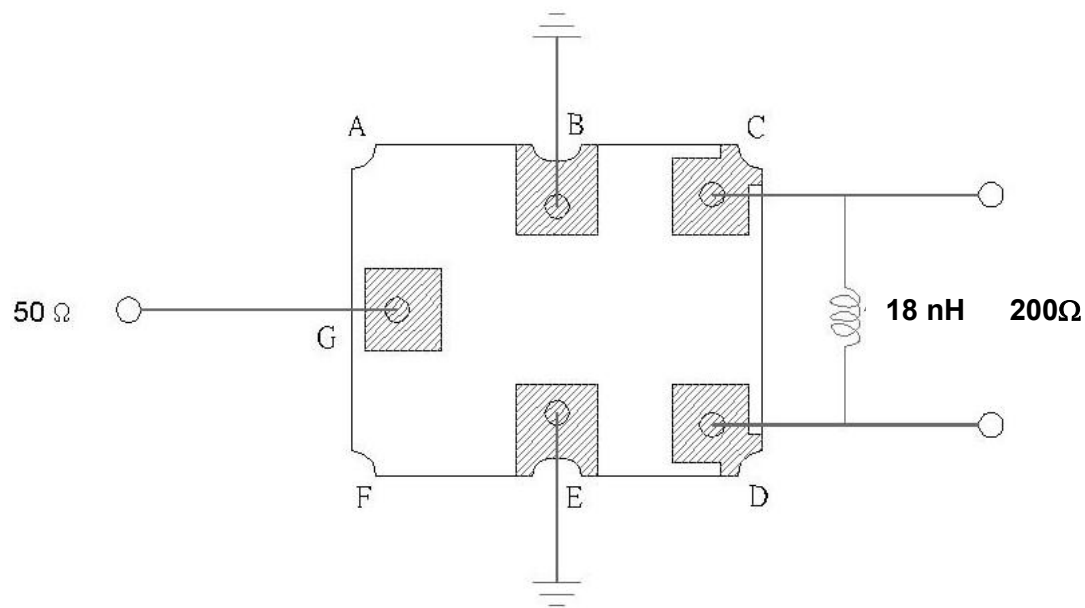
Amplitude/Phase Balance



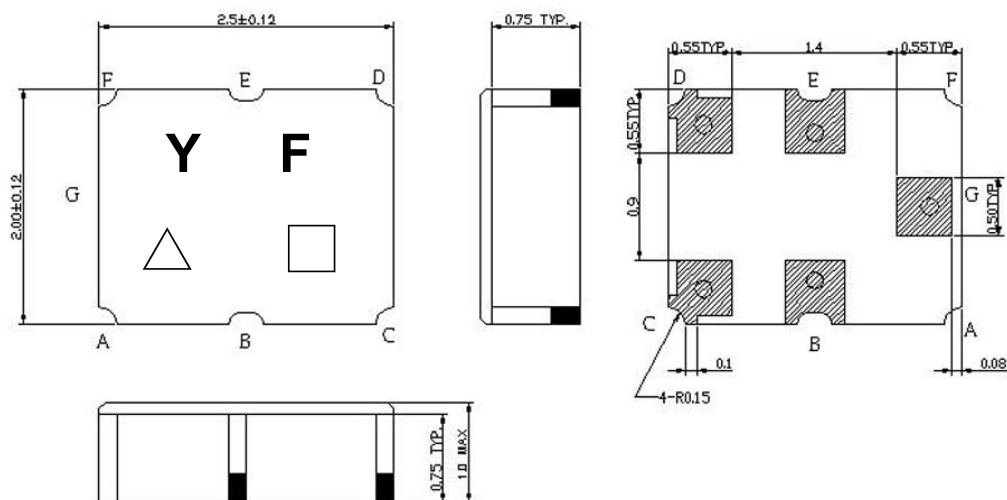
Reflection Function



D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:

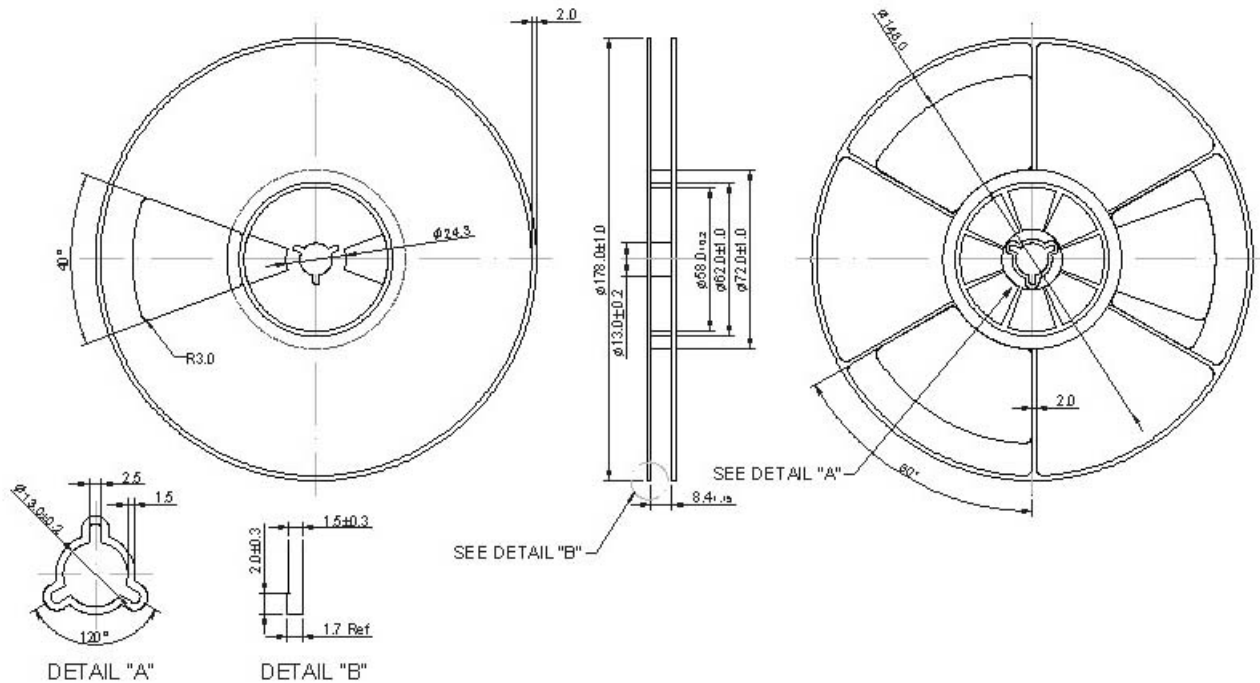


Pin configuration

- G : Unbalance input
- C,D : Balance output
- A,B,E,F : Ground
- △ : Year code
- : Date code
- Unit : mm

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

