



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 240 MHz

TST Parts No.:TB0270A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Lee

Approval by:_____ Francis Chen

Date:_____ 2004/11/09



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IF SAW Filter 240 MHz SMD 7 X5mm

MODEL NO.: TB0270A

REV. NO.1

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ 80 °C
2. Storage Temperature: -40 °C ~ +85 °C

RoHS Compliant
Lead free
Lead-free soldering

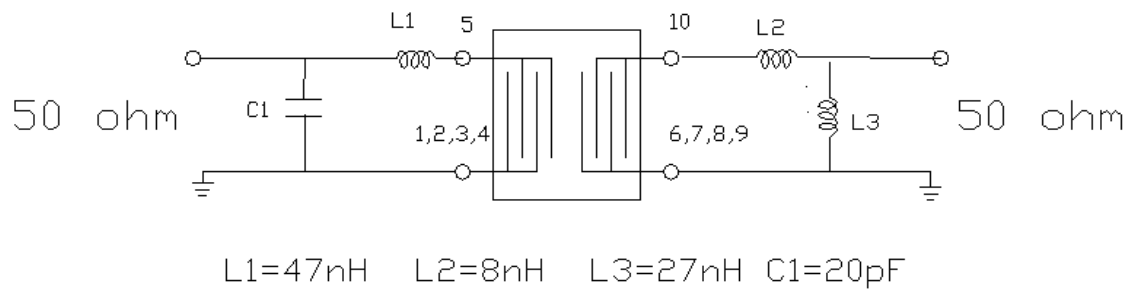
B. Characteristics :

1. Ambient Temperature: 25 °C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_C MHz	-	240	-	-
Minimum Insertion loss I.L. dB	-	7.7	8.5	-
Passband ripple ($F_C \pm 7\text{MHz}$) dB	-	0.8	1.4	-
Phase linearity ($F_C \pm 6.3\text{MHz}$)(p-p) deg	-	6	15	-
Return loss at Input and Output ($F_C \pm 6.3\text{MHz}$) dB	9.5	12	1	-
Group Delay ($F_C \pm 7\text{MHz}$) μS	-	0.6	1	-
Group Delay Ripple ($F_C \pm 7\text{MHz}$) nS	-	33	100	1
Triple transit suppression TTS dB	-	45	40	-
Attenuation:(Reference level from minimum insertion loss)				dB
1) any 3.5MHz interval within $F_C \pm 7\text{MHz}$ dB	-	0.5	1	-
2) 150 MHz ~ 210 MHz dB	40	48	-	-
3) 210 MHz ~ 218 MHz dB	40	47	-	-
4) 218 MHz ~ 224 MHz dB	38	42	-	-
5) 218 MHz dB	40	49	-	-
6) 256 MHz ~ 258 MHz dB	35	39	-	-
7) 258 MHz ~ 262 MHz dB	35	39	-	-
8) 262 MHz ~ 330 MHz dB	35	40	-	-

Note 1 : measurement with smoothing; smoothing aperture $\leq 50\text{kHz}$

C. Measurement Circuit:



D. Frequency Characteristics :

1. S21 Response

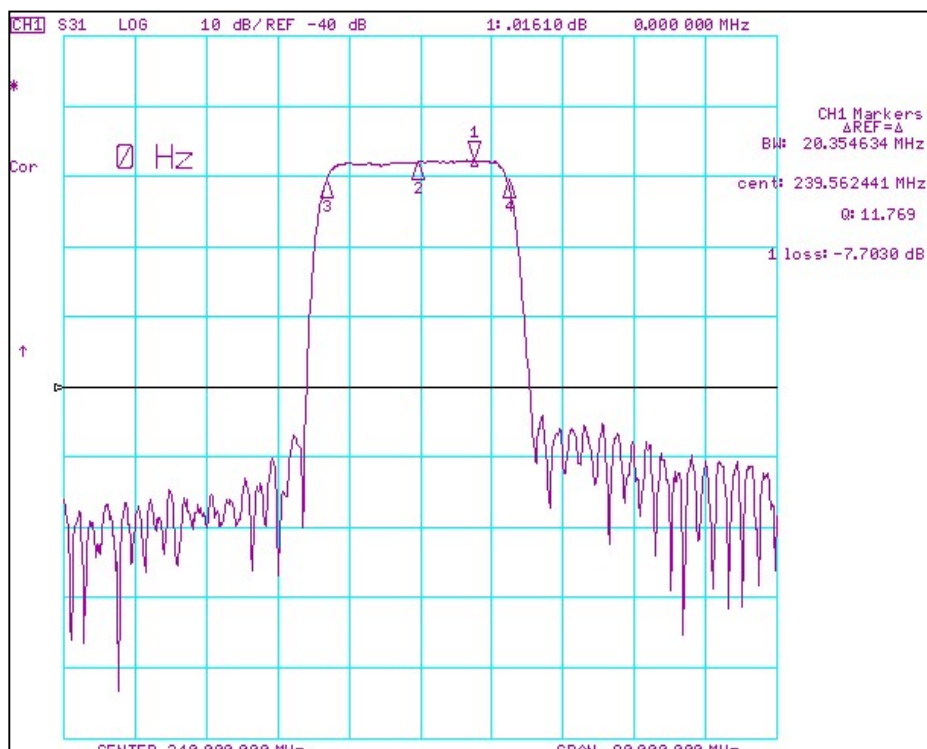


Fig1. Horizontal: 8MHz/Div Vertical: 10dB/Div

2. S21 Response (Group delay ripple of Passband)

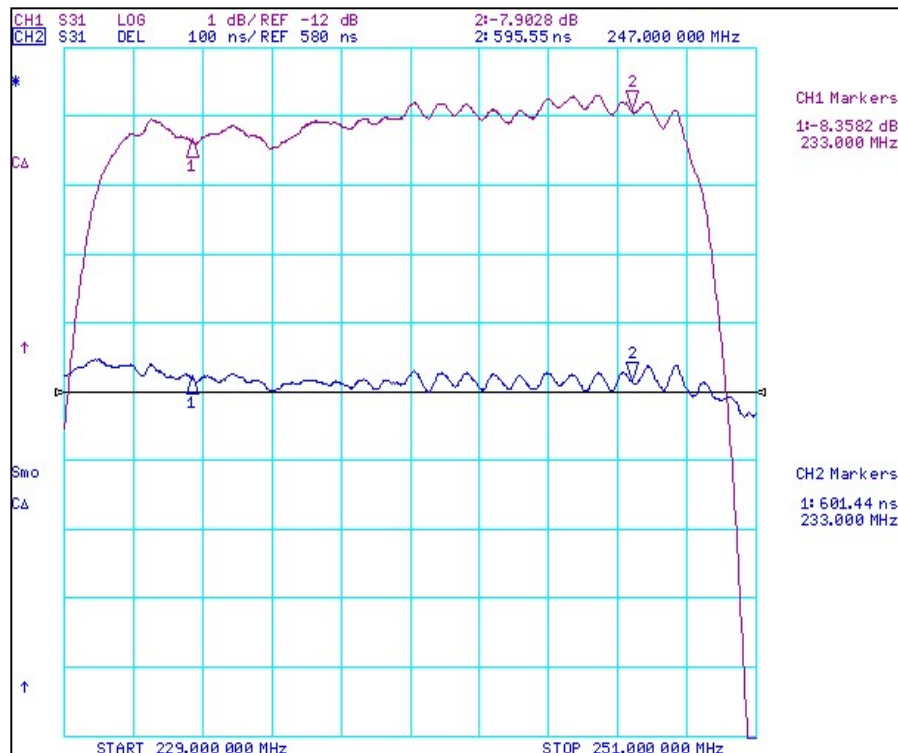


Fig2. Horizontal: 2.2MHz/Div; Vertical: 1dB/Div,
Vertical: 100nS/Div

3. S21 Response (Phase linearity)

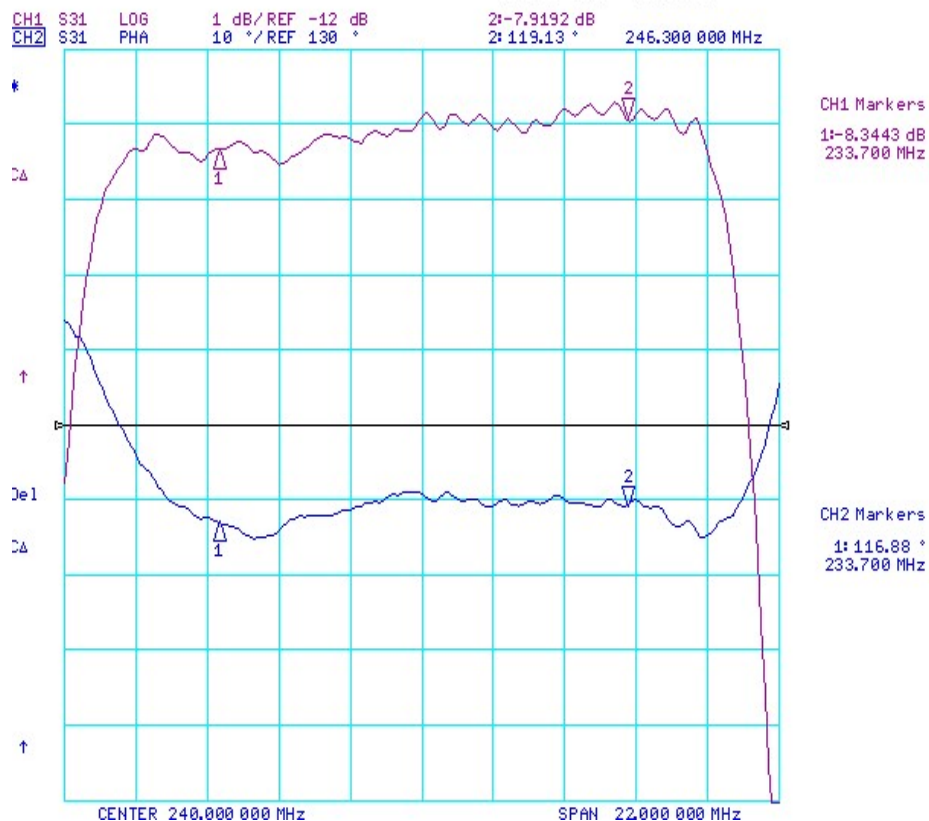
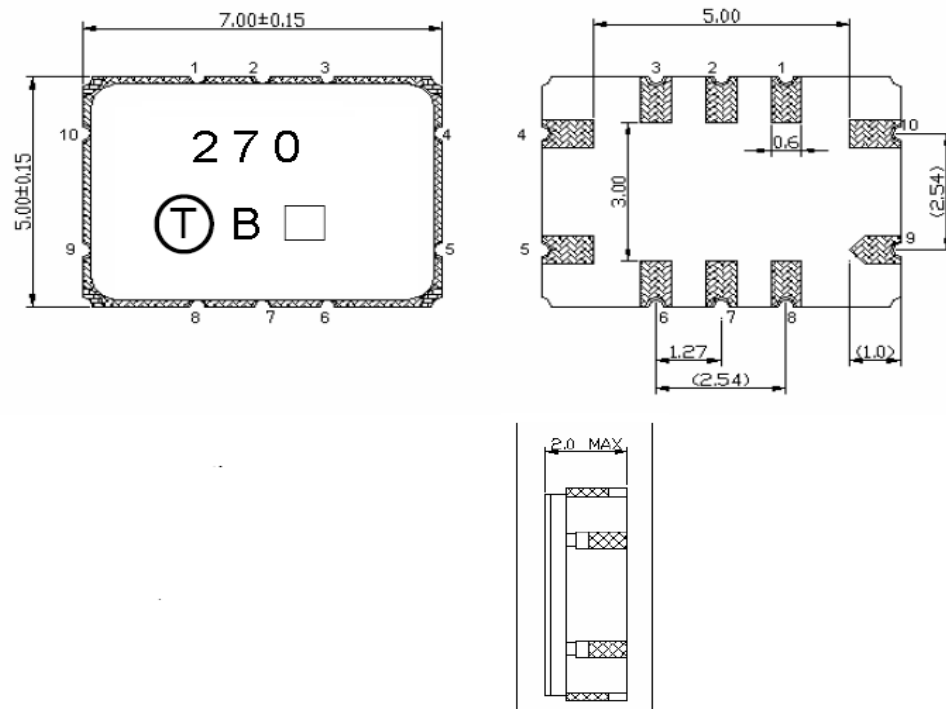


Fig3. Horizontal: 2.2MHz/Div; Vertical: 1dB/Div, 10deg/Div

E. Outline Drawing:



Pin 5: RF Input

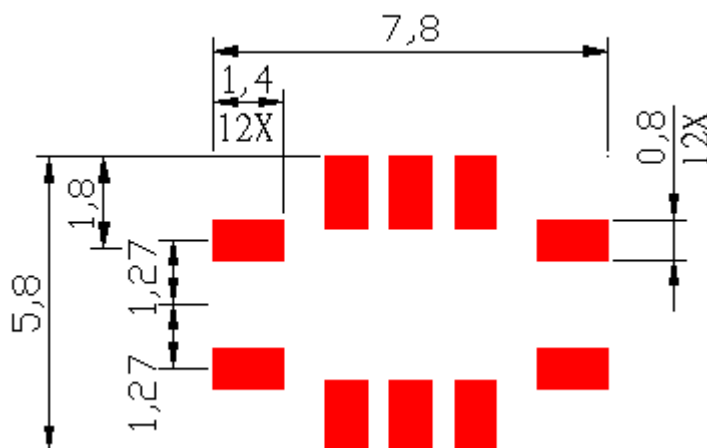
Pin 10: RF Output

Pin 1,2,3,4,6,7,8,9 : To be Ground

□: Date code

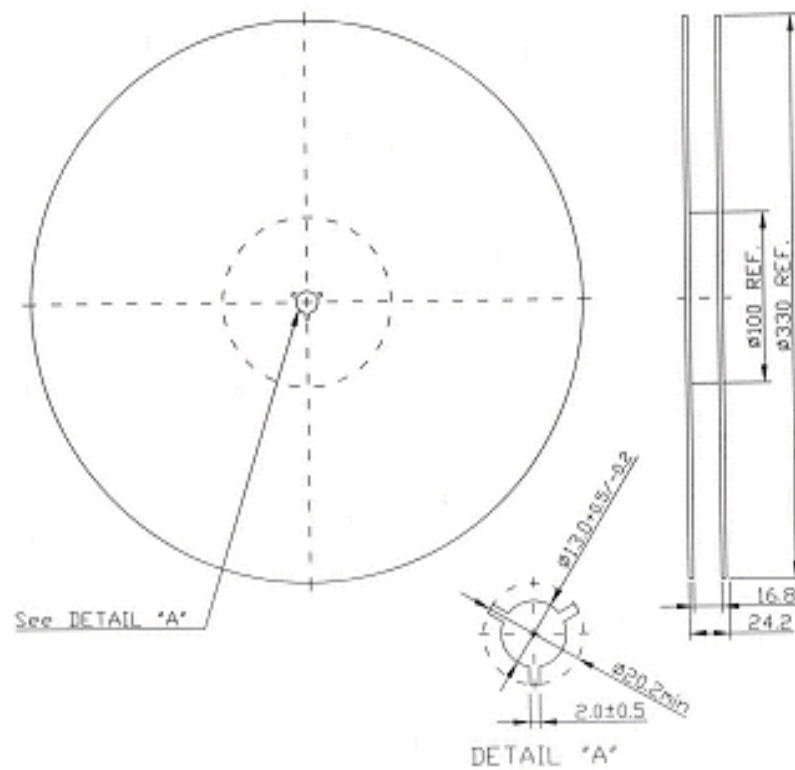
Unit: mm

F. PCB FOOTPRINT:



F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

