



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW IF Filter 210.38MHz (SMD 5X5)

TST Parts No.: TB 0124A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Andy Lee

Approval by: _____ Francis Chen

Date: _____ 12,8 ,2003



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SAW IF Filter 210.38 MHz

MODEL NO.: TB0124A

REV. NO.:2

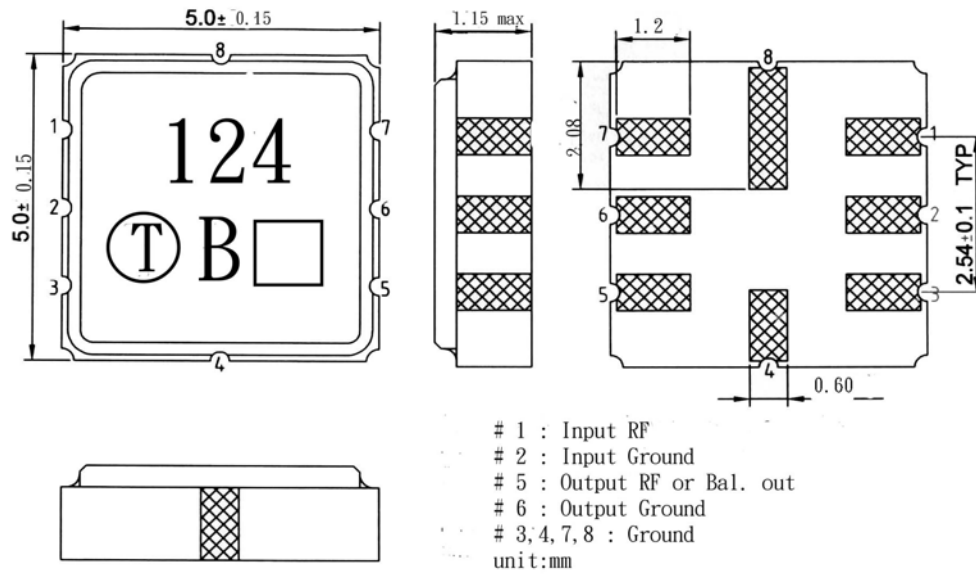
A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +70°C
4. Storage Temperature: -30°C to +70°C

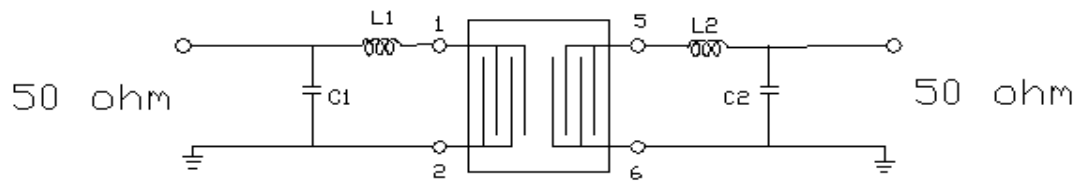
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typical.	Max.	Note
Center frequency, F_c	MHz	-	210.38	-	
Insertion Loss, IL at F_c	dB	-	9.5	10.5	
Ripple at fc-0.30 ... fc+0.30 MHz	dB	-	0.6	1.2	
Phase Linearity in F _c ±0.63MHz (RMS)	Deg	-	2.	3.5	
Attenuation:(Reference level from Min IL)					
F _c -0.63 ... F _c +0.63MHz	dB		3.9	5	
F _c -100 ... F _c - 50MHz	dB	57	74	-	
F _c -50 ... F _c -30MHz	dB	50	70	-	
F _c -30 ... F _c -10MHz	dB	40	60	-	
F _c -10 ... F _c -1.25 MHz	dB	25	30	-	
F _c -1.25 MHz	dB	25	30	-	
F _c +1.25 MHz	dB	29	32	-	
F _c +1.25 ... F _c +10 MHz	dB	29	32	-	
F _c +10 ... F _c +30 MHz	dB	38	56	-	
F _c +30 ... F _c +50 MHz	dB	43	65	-	
F _c +50 ... F _c +100 MHz	dB	50	70	-	

C. OUTLINE DRAWING:



D. MATCHING CIRCUIT:



$$\begin{aligned} C1 &= 20\text{pF} & L1 &= 120\text{nH} \\ L2 &= 120\text{nH} & C2 &= 27\text{pF} \end{aligned}$$

E.FREQUENCY CHRACTERISTICS:

(1) Frequency response



Fig-1 S21 Response Horizontal: 1MHz/Div
Vertical: 10dB/Div

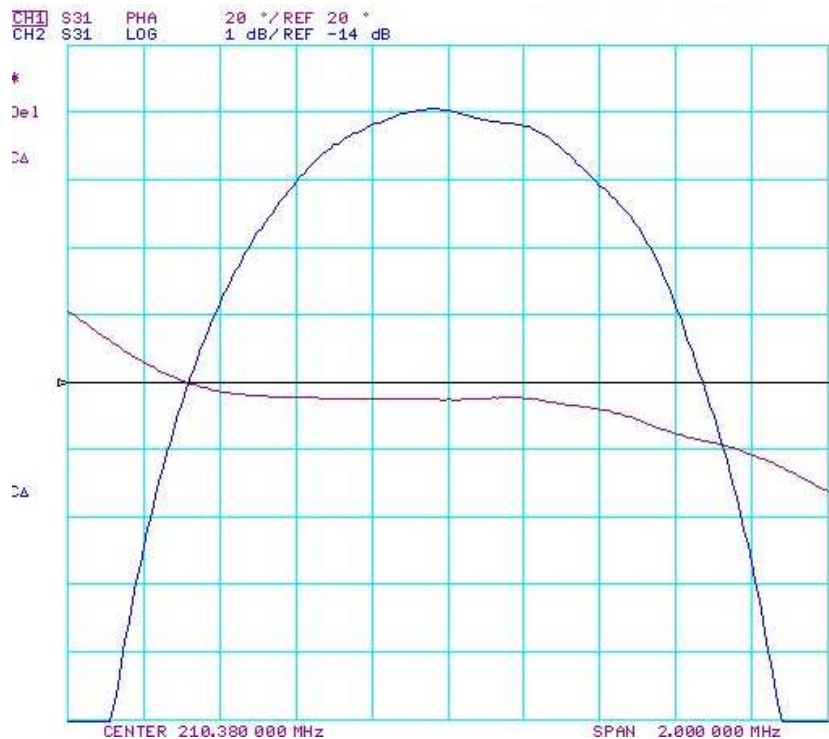


Fig-2 Phase Linearity Horizontal: 0.2MHz/Div
Vertical: 1 dB/Div Vertical: 20 deg/Div

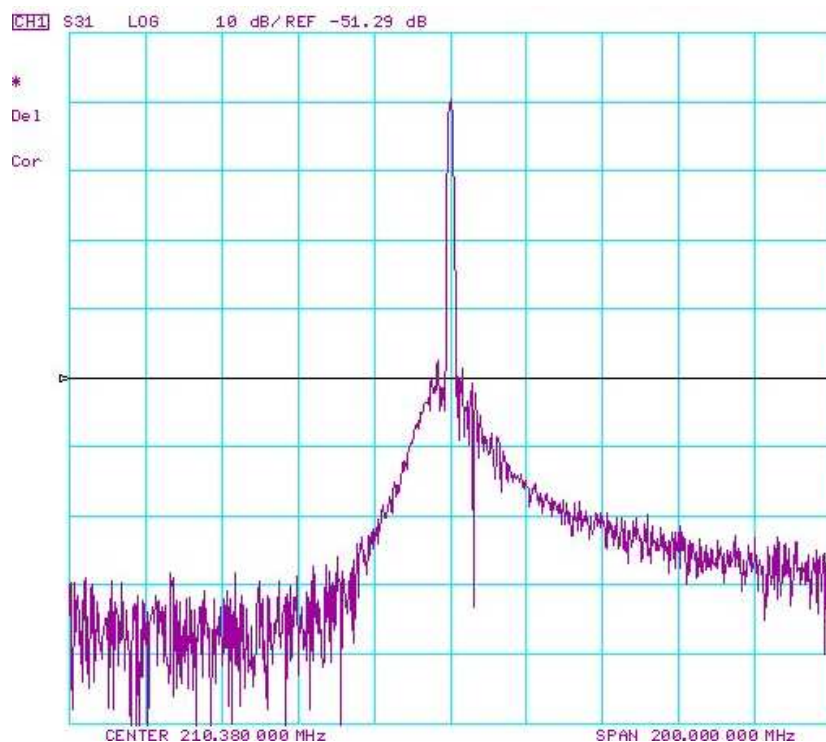
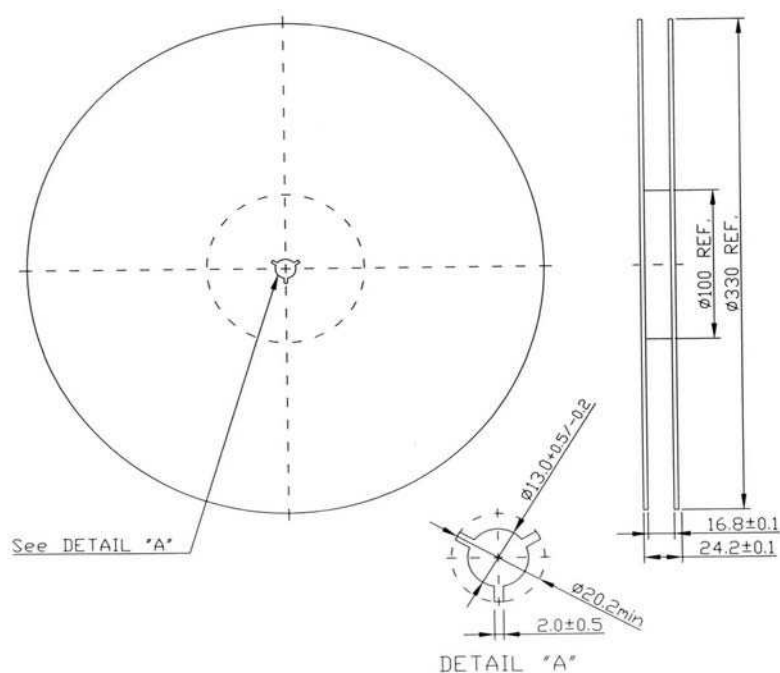


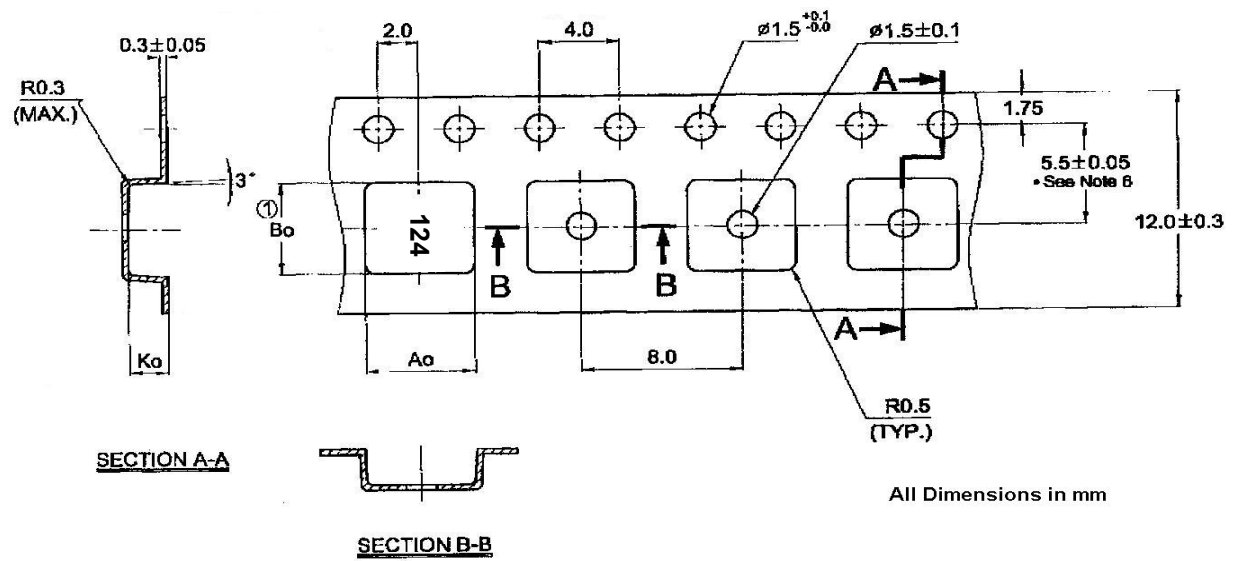
Fig-3 S21 Response Horizontal: 20MHz/Div
Vertical: 10dB/Div

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



$$A_o = 5.30 \pm 1 \text{ mm}$$

$$B_o = 5.30 + 0.2 / - 0.0 \text{ mm}$$

$$K_o = 2.0 \pm 0.1 \text{ mm}$$

