



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 240MHz IF SAW Filter (BW=20 MHz)

TST Parts No.: TB0429A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu

Approval by: _____ Francis Chen

Date: _____ 11/28/2006



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SAW Filter 240MHz (SMD 5.0×7.0 mm)

MODEL NO.: TB0429A

Rev. NO. 1.0

A. MAXIMUM RATINGS:

1. Operating Temperature: -20°C to 60°C
2. Storage Temperature: -40°C to 85°C
3. Input Power: 15dBm

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	240.0	-	-
Minimum Insertion loss I.L. (229.75~250.25MHz) dB	-	11.6	13.0	-
1 dB Bandwidth MHz	-	20.6	-	-
3 dB Bandwidth MHz	20	23.1	-	-
40 dB Bandwidth MHz	-	30.1	32.0	-
Amplitude Ripple (231~249MHz) dB	-	0.6	1.0	-
Group Delay (229.75~250.25MHz) nsec	-	55	150	-
Triple transient dB	-	38	-	-
Input VSWR	-	1.4	2.0	-
Absolute delay usec	-	0.54	2.0	-
Phase ripple (P.T.P) deg	-	18	-	-
Relative Rejection (Reference to Minimum Insertion loss)				
225 MHz dB	15	35	-	-
255 MHz dB	15	40	-	-
100-120 MHz dB	40	70	-	-
120~160 MHz dB	50	60	-	-
160~218 MHz dB	40	50	-	-
218~220.5 MHz dB	43	50	-	-
260~400 MHz dB	35	42	-	-

C. FREQUENCY CHARACTERISTICS:

(1) wide band of Response: (span: 150MHz)

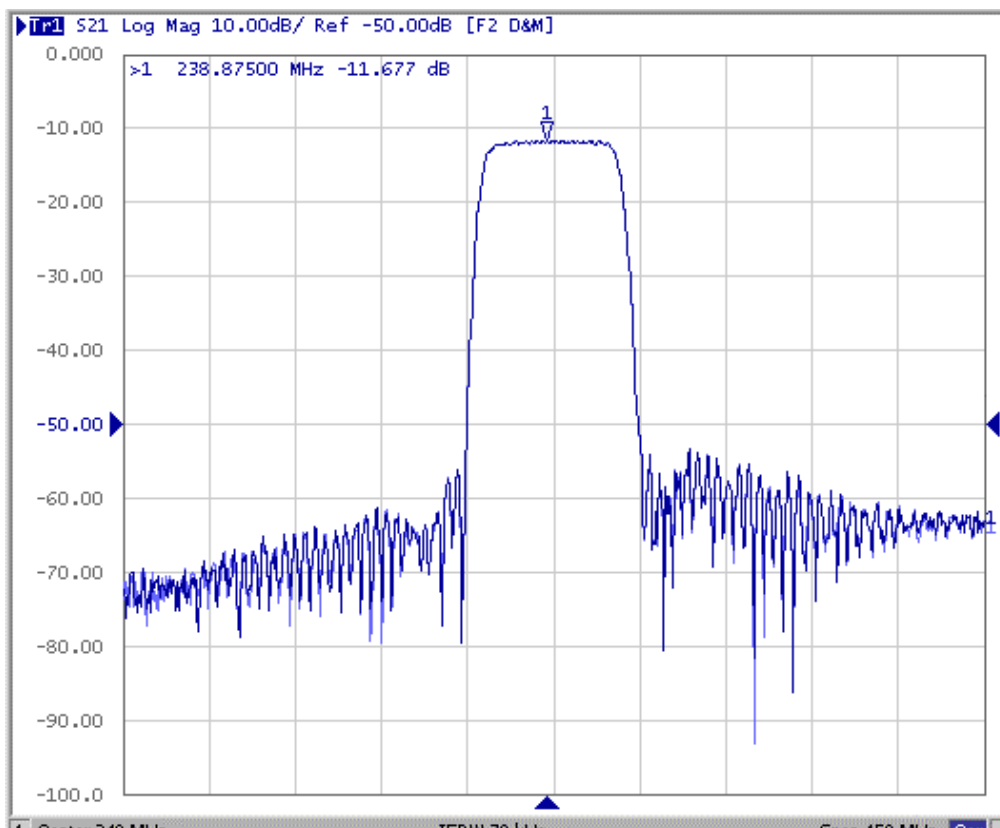


Fig1.S21 Response Horizontal:15MHz/Div Vertical: 10dB/Div

(2) Passband of Response: (span: 40MHz)

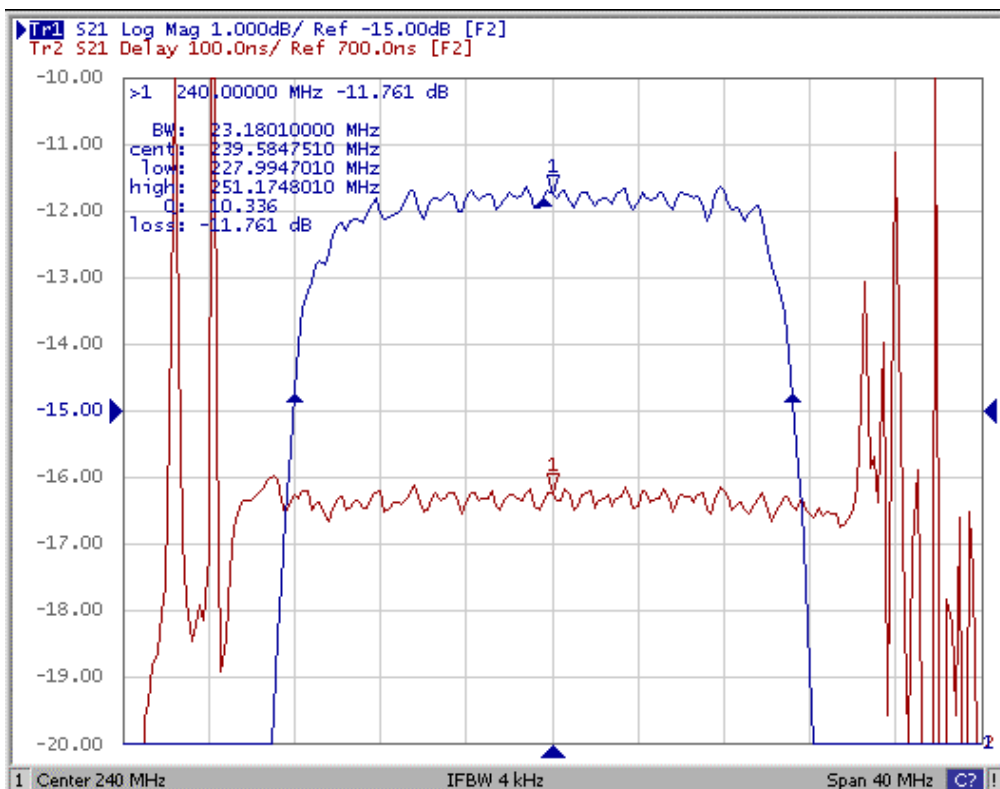
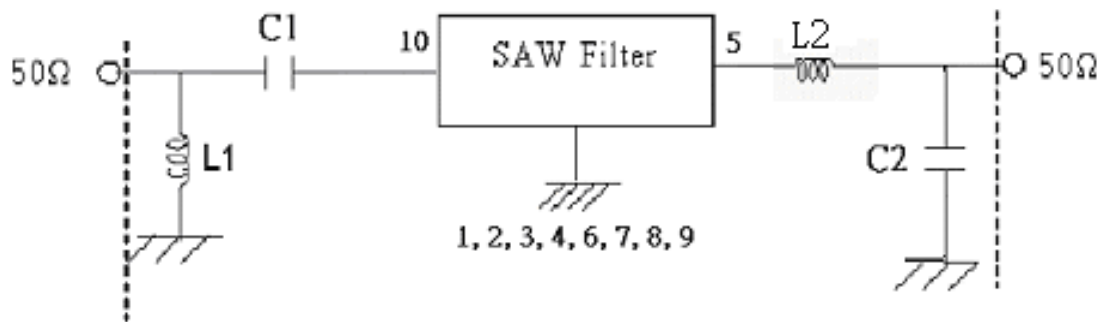


Fig2.S21 Response Horizontal:4MHz/Div Vertical: 1dB/Div

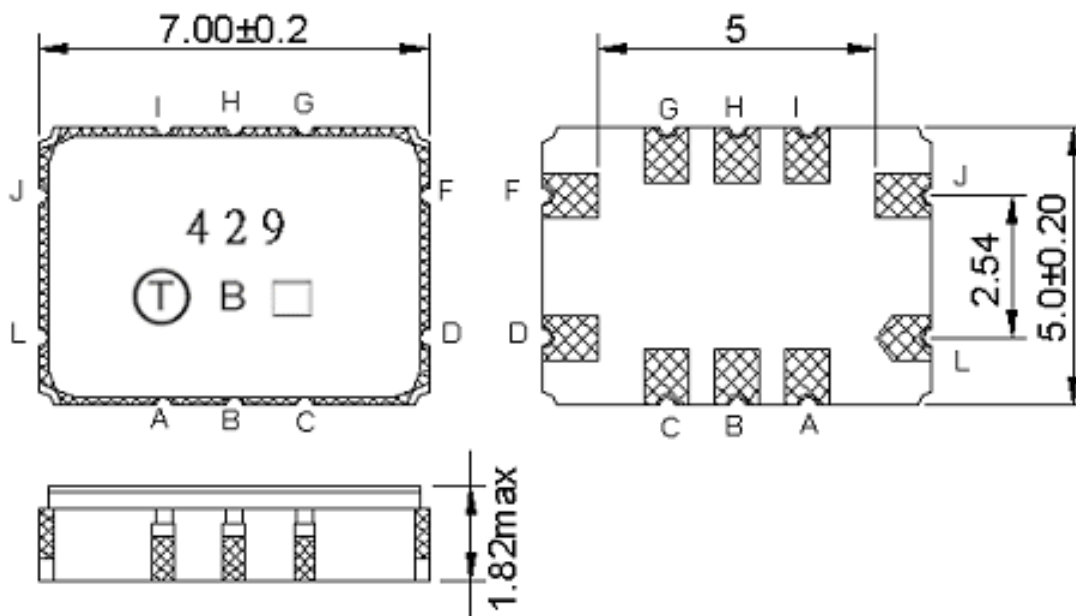
D. TEST CIRCUIT:

Network analyzer



$L1=15\text{nH}$, $C1=45\text{pF}$, $L2=3.3\text{nH}$, $C2=27\text{pF}$

E. OUTLINE DRAWING:



Pin 10 : Unbalanced Input

Pin 5 : Unbalanced Output

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

□ : Week Code (Follow the table from planner each year)

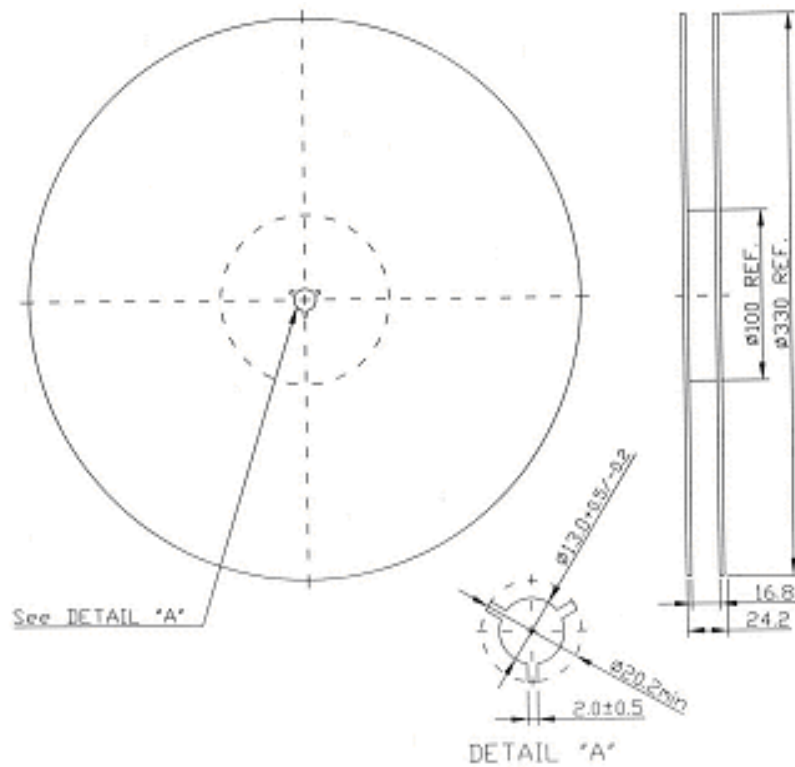
Unit : mm

△ : Product / Year Code

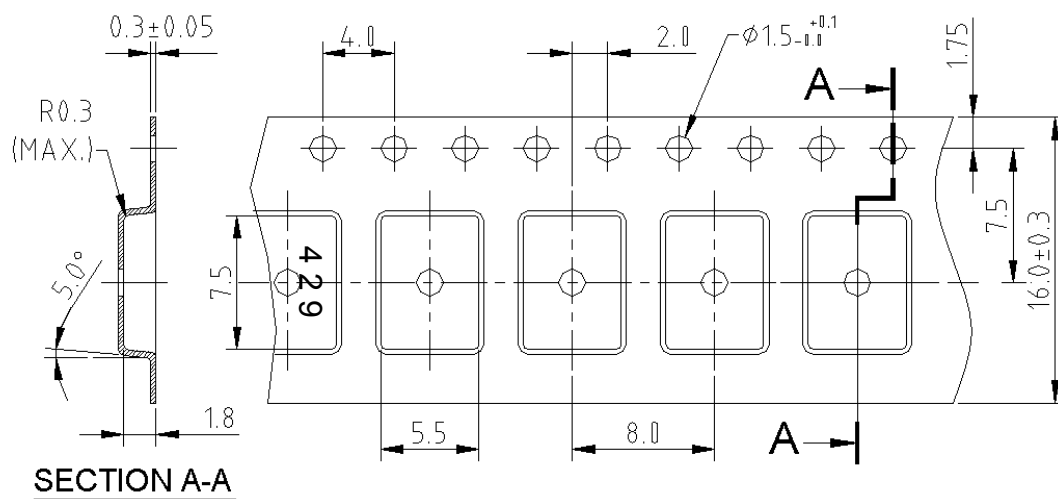
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Direction of feed

G. Recommended Reflow Profile:

