TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date:

Product Name: 456 MHz 5MHz BW SMD5x5mm IF SAW Filter

TST Parts No.:TB0462A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Andy Lee_____

Approval by:_____Francis Chen_____

Date:_____2006/12/12_____

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456MHz 5MHz BW SMD5x5mm IF SAW Filter

MODEL NO.: TB0462A REV No. 1

A. MAXIMUM RATING:

1.Operating Temperature: -20 °C ~ +60 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input Power Level: 10 dBm

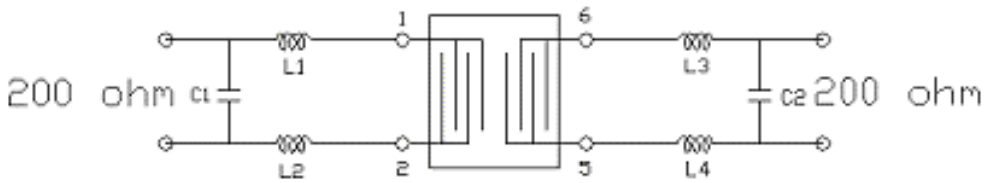
RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

1. Ambient Temperature: 25 °C
2. Optimal Source Impedance(Balanced): 200 ohms
3. Optimal Load Impedance(Balanced): 200 ohms

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center Frequency F_C MHz	-	456	-	-
Minimum Insertion Loss (453.8~458.2MHz) dB		12.0	13.0	
Passband Ripple (453.8~458.2MHz) dB	-	0.50	1.00	-
30dB Bandwidth MHz		10.6	11.5	
Attenuation:(Reference level from minimum insertion loss) dB				
1) 10 MHz ~ 256 MHz dB	30	70	-	-
2) 256 MHz ~ 360 MHz dB	40	64	-	-
3) 360 MHz ~ 421 MHz dB	40	55	-	-
4) 421 MHz ~ 449 MHz dB	36	44	-	-
5) 463 MHz ~ 491 MHz dB	36	44	-	-
6) 491 MHz ~ 552 MHz dB	40	55	-	-
7) 552 MHz ~ 656 MHz dB	40	66	-	-
8) 656 MHz ~ 946 MHz dB	30	59	-	-
Absolute Group Delay at Fo uS	-	0.45	0.55	-
Group Delay Ripple (453.8~458.2MHz) dB	-	52	100	-
Input Return Loss(453.8~458.2MHz) dB	10	36	-	-
Output Return Loss (453.8~458.2MHz) dB	10	18	-	-
Temp Coefficient ppm/° C^2	-0.036			

C. Measurement Circuit:



L1=L2=18nH C1=12pF L3=L4=18nH C2=10pF

D. Frequency Characteristics :

1. S21 Response

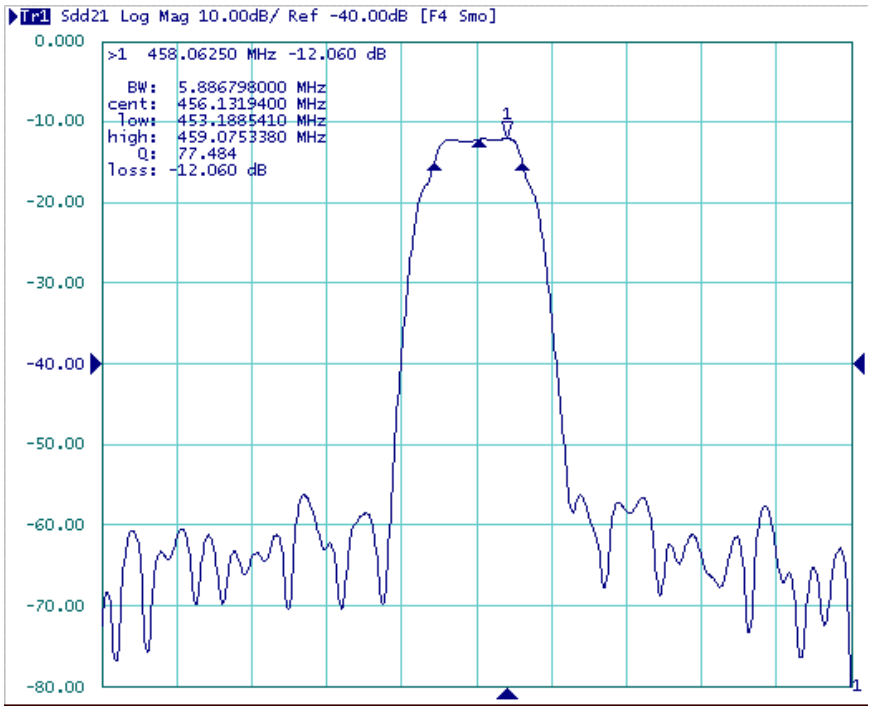


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

2. Pass band Ripple

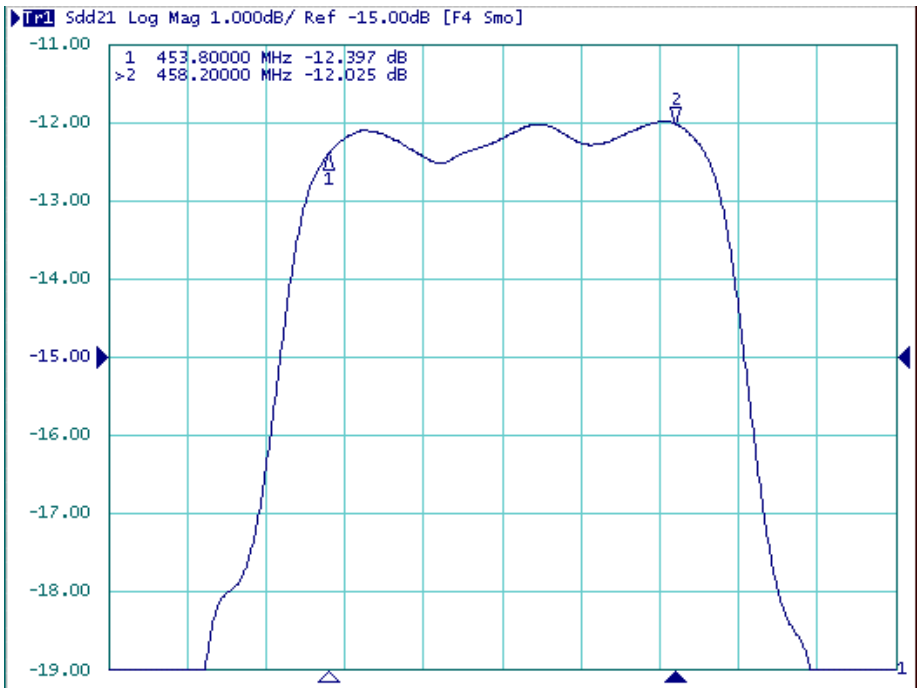


Fig2. Horizontal: 1.5MHz/Div Vertical: 1dB/Div

3. Group Delay Ripple

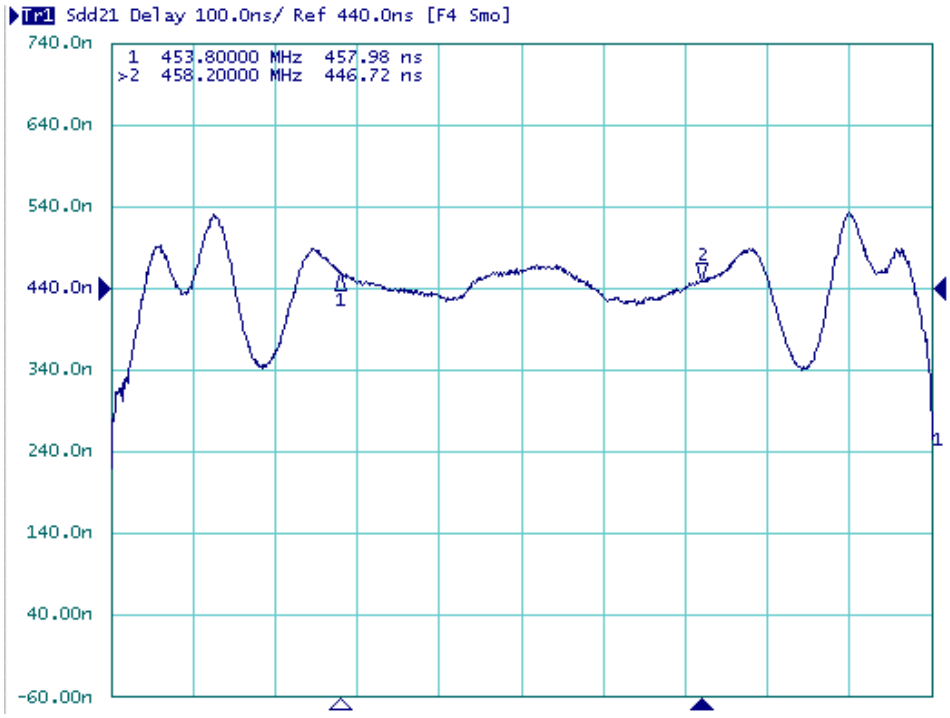


Fig3. Horizontal: 1.5MHz/Div Vertical: 200nS/Div

4. Wide band Response

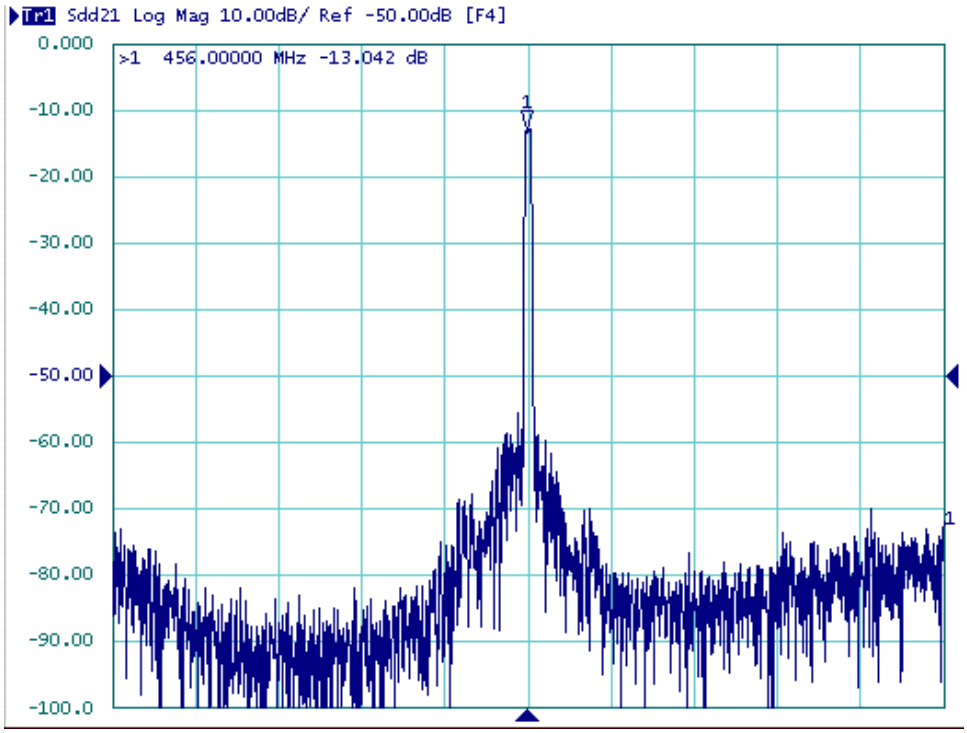
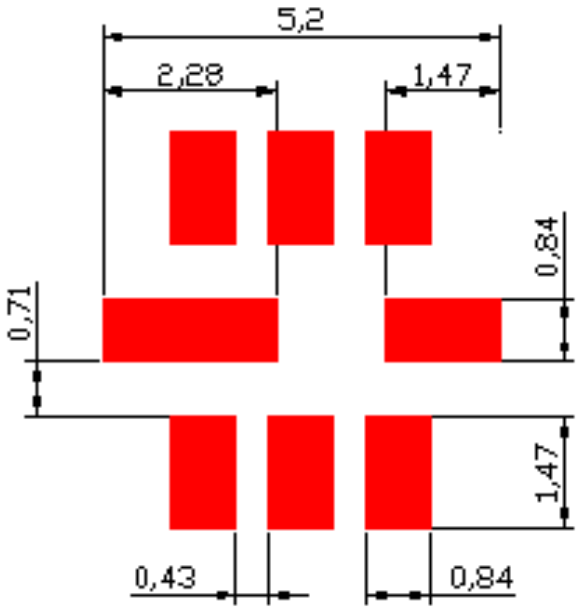
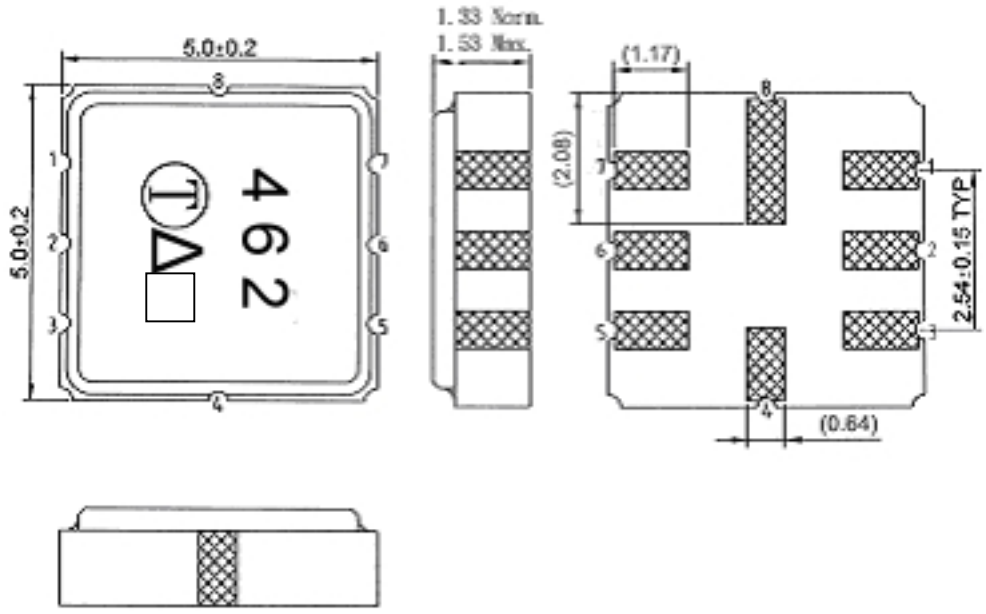


Fig4. Horizontal: 10MHz~946MHz Vertical: 10dB/Div

E. PCB Footprint



F. Outline Drawing:



Pin 1,2 : Balanced Input

Pin 5,6 : Balanced Output

Pin 3,4,7,8 : To be Ground

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

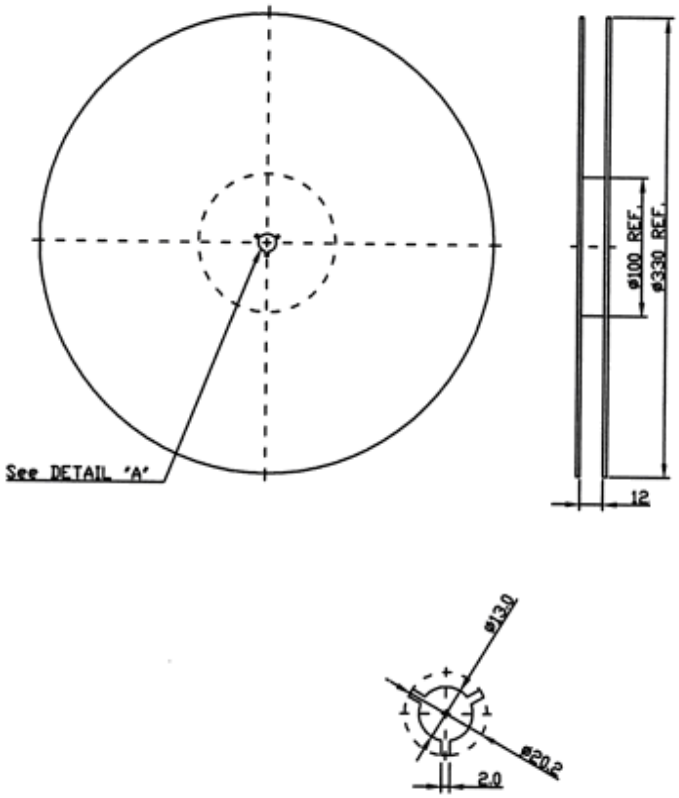
Unit : mm

△ : Product / Year Code

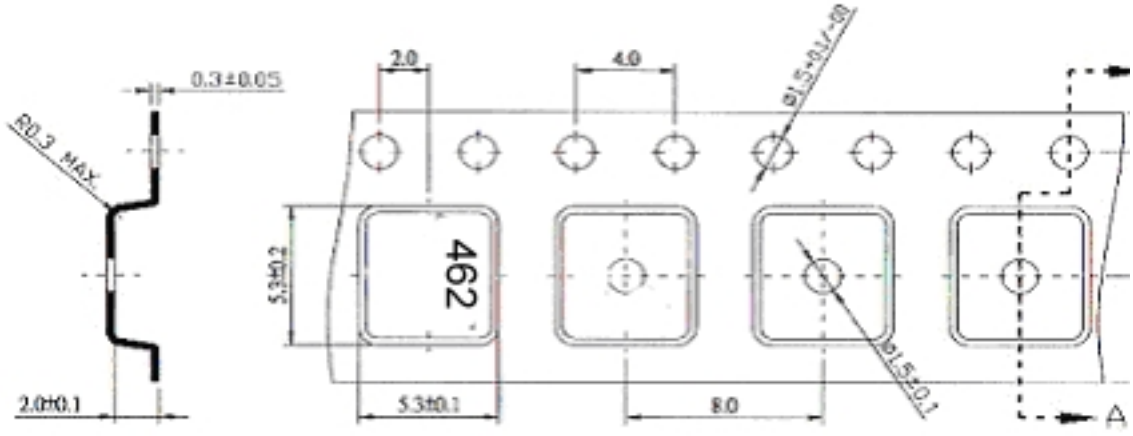
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	B	b

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Section A-A