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Approval Sheet For Product Specification

Issued Date:

Product Name: 456 MHz 10.4MHz BW SMD7x5mm IF SAW Filter

TST Parts No.:TB0492A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu

Approval by:_____ Francis Chen

Date:_____ 2008/5/12



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456MHz 10.4MHz BW SMD7x5mm IF SAW Filter

MODEL NO.: TB0462A

REV No. 1

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +90 °C
2. Storage Temperature: -40 °C ~ +90 °C
3. Input Power Level: 10 dBm

RoHS Compliant
Lead free
Lead-free soldering

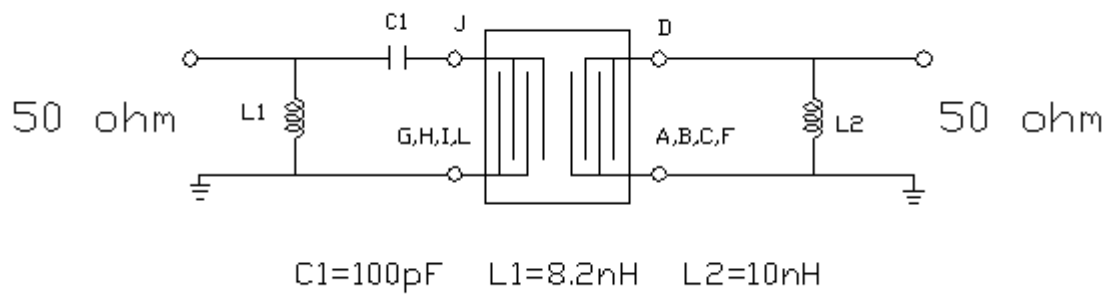
B. Characteristics :

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

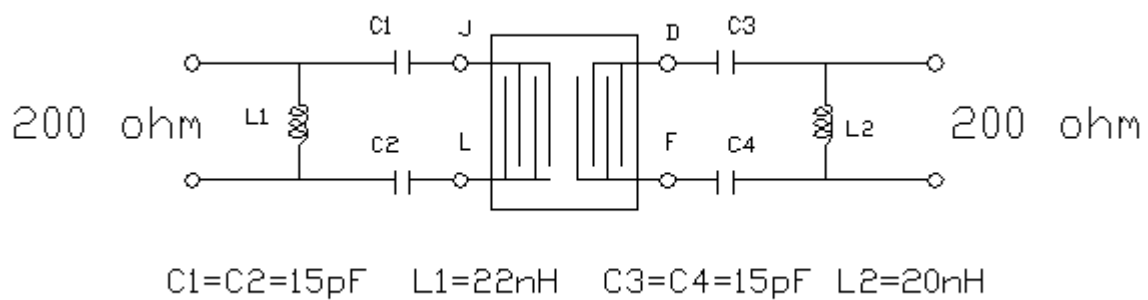
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center Frequency F_c MHz	-	456.0	-	-
Minimum Insertion Loss dB		10.2	11.0	
Passband Ripple ($F_c \pm 2.9\text{MHz}$) dB	-	0.8	1.5	-
Passband Ripple ($F_c \pm 5.2\text{MHz}$) dB		1.7	2.0	
Group Delay Ripple ($F_c \pm 5.2\text{MHz}$) nS	-	80	150	-
Absolute group delay (at F_c) uS		0.44		
Attenuation:(Reference level from minimum insertion loss)				dB
1) $F_c \pm 10.0\text{MHz} \dots F_c \pm 43.0\text{MHz}$ dB	37	40	-	-
2) 411 MHz ~ 413 MHz dB	40	53	-	-
3) 393 MHz ~ 411 MHz dB	40	53	-	-
4) 343 MHz ~ 393 MHz dB	42	56	-	-
Temp Coefficient ppm/° C ²	-18			

C. Measurement Circuit:

(1) Single end 50 ohm to Single end 50 ohm



(2) Balanced 200 ohm to Balanced 200 ohm



D. Frequency Characteristics :

1. S21 Response

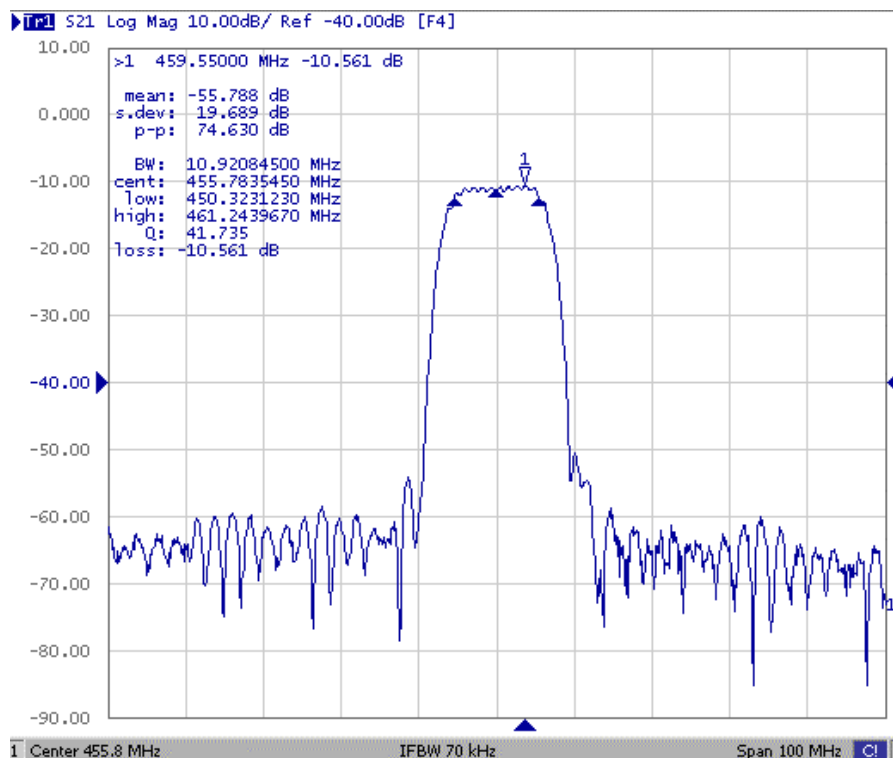


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

2. Pass band Ripple

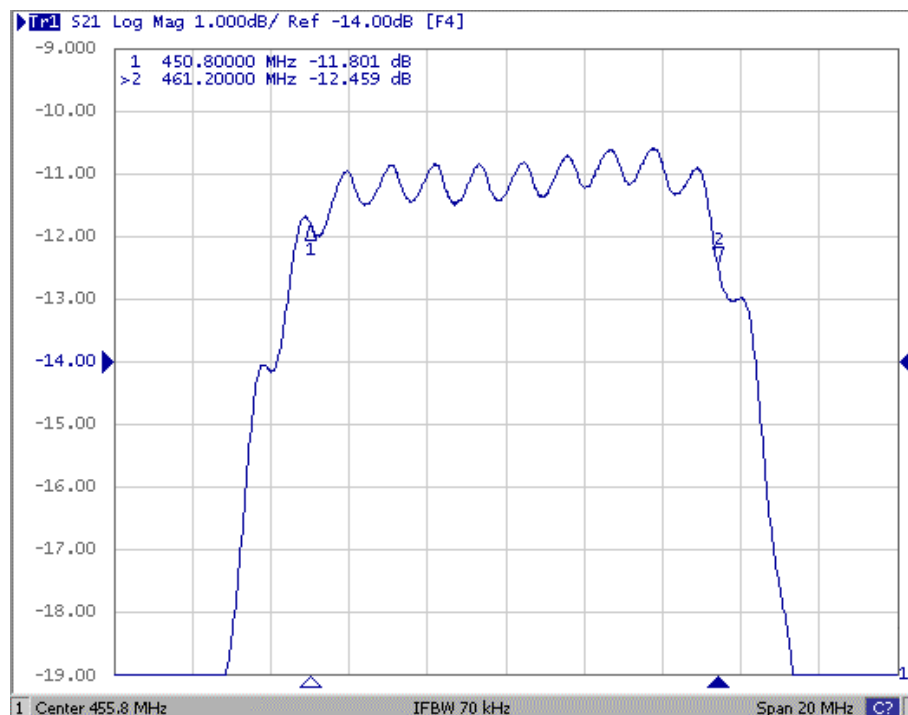


Fig2. Horizontal: 2MHz/Div Vertical: 1dB/Div

3. Group Delay Ripple

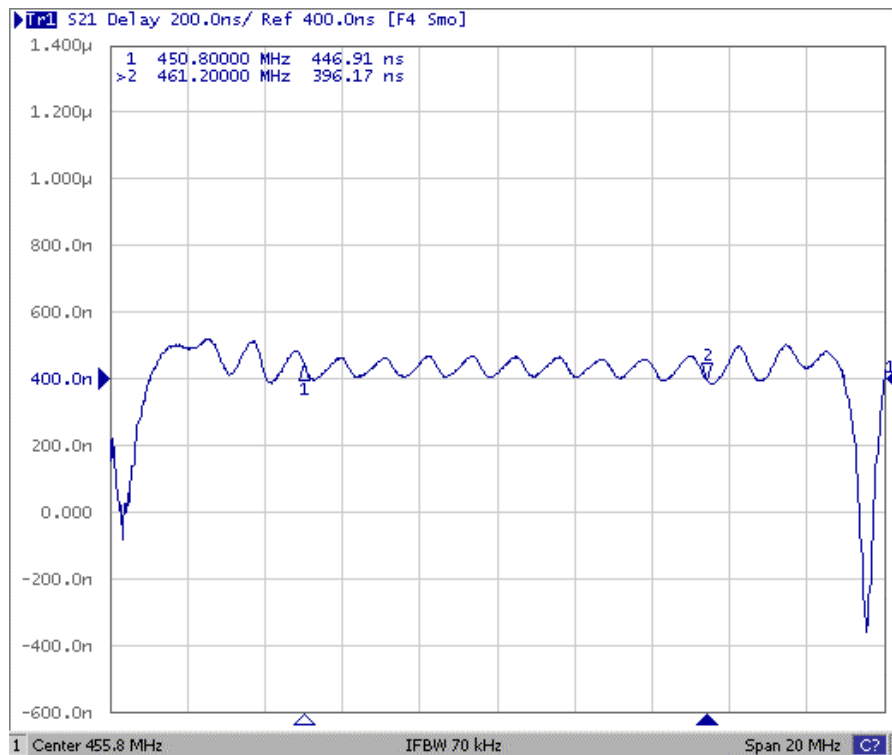


Fig2. Horizontal: 2MHz/Div Vertical: 100nS/Div

4. Wide band Response

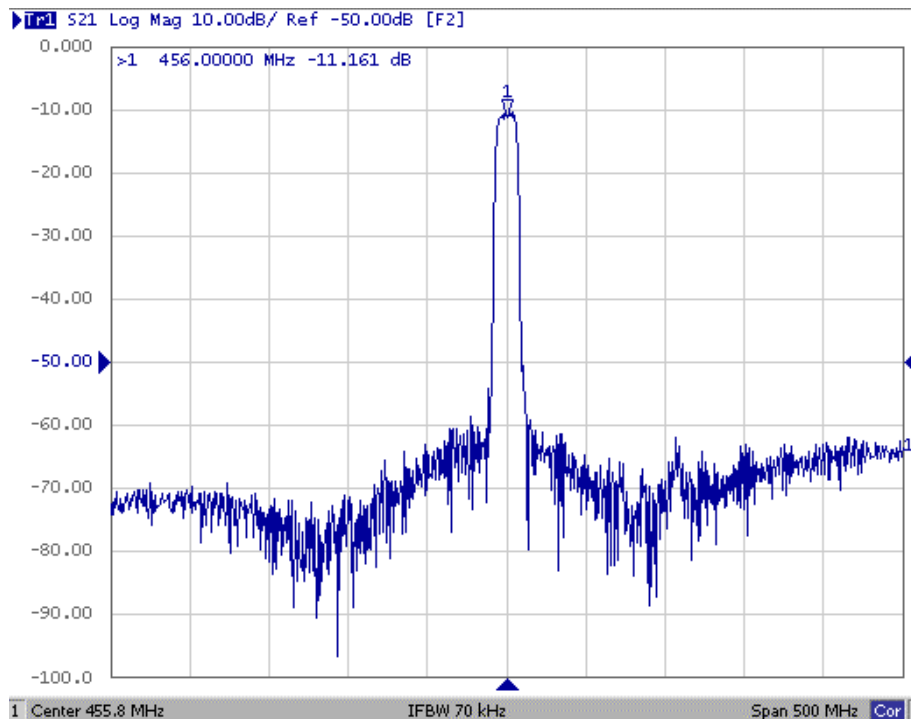
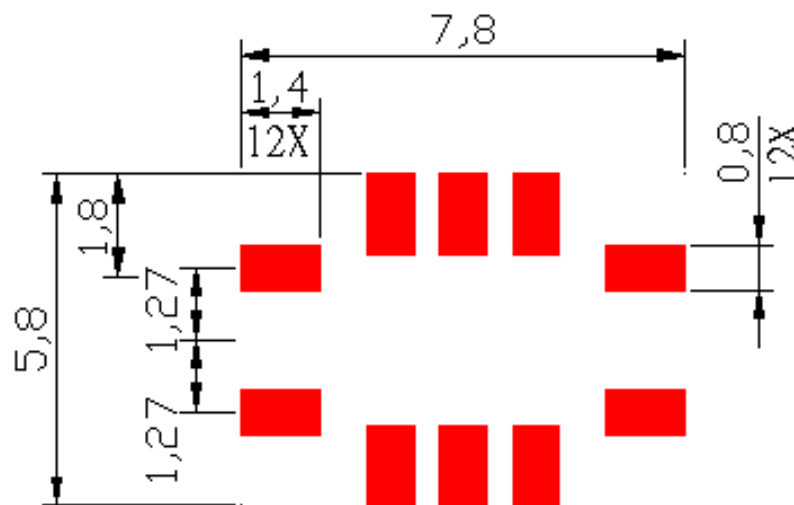
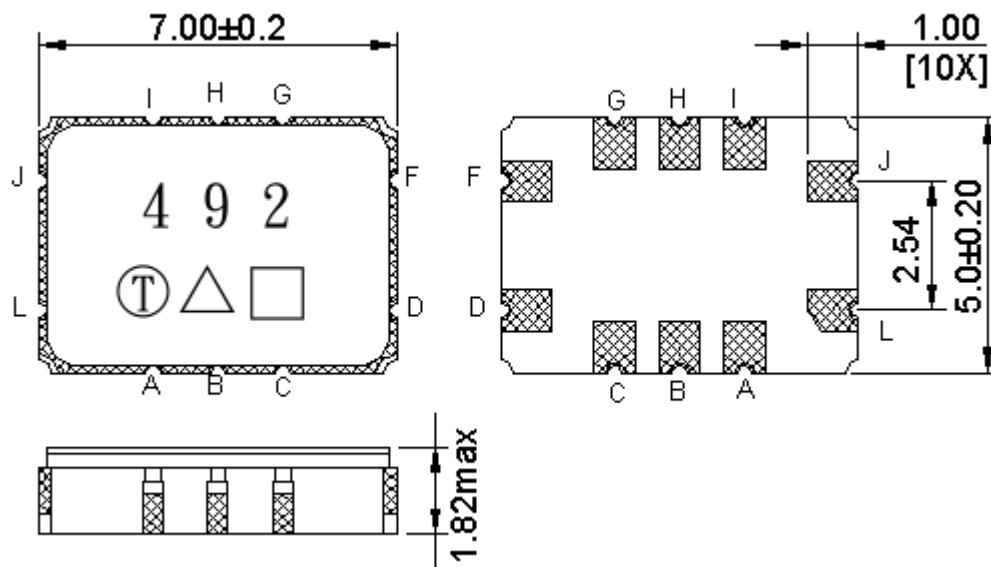


Fig4. Horizontal: 50MHz/Div Vertical: 10dB/Div

E. PCB Footprint



F. Outline Drawing:



Pin J : Balanced Input or single ended input

Pin D : Balanced Output or single ended Output

Pin F : Balanced Input return or single ended Input ground

Pin L : Balanced Output return or single ended Output ground

Pin A,B,C,G,H,I : To be Ground

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

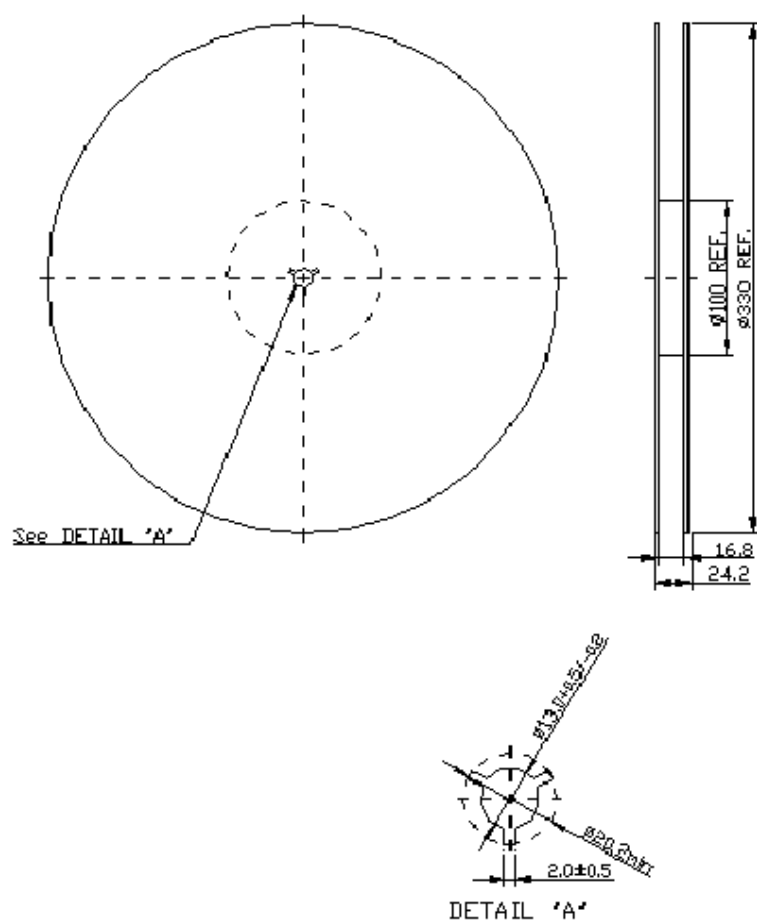
Unit : mm

△ : Product / Year Code

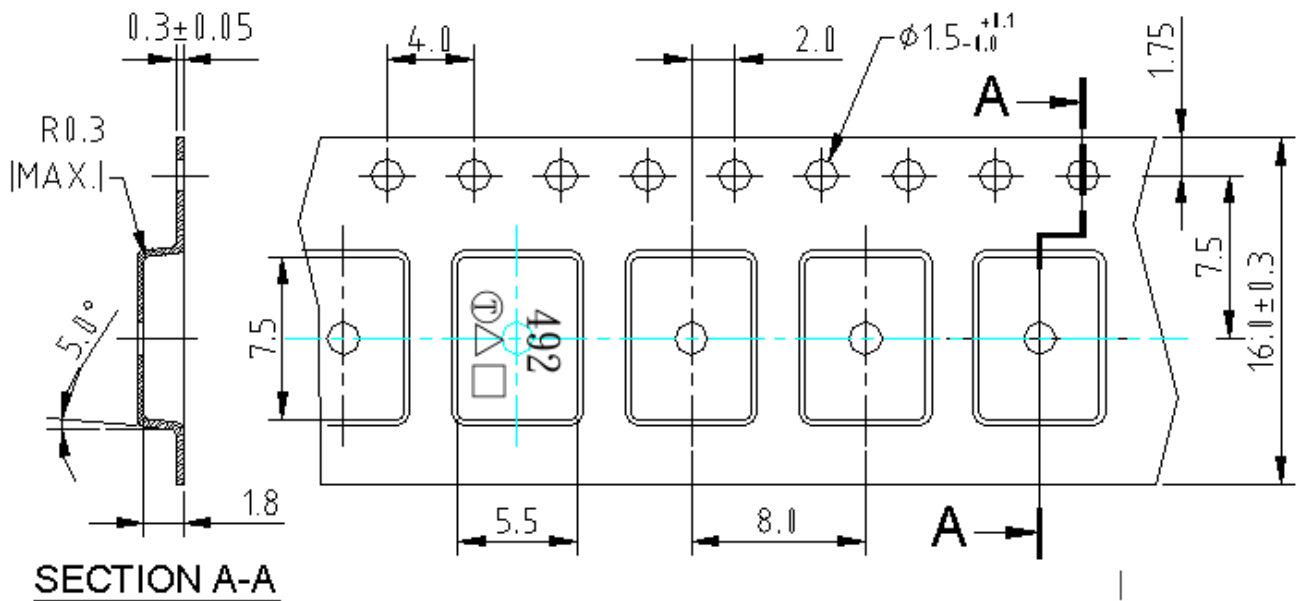
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. Recommended Reflow Profile:

