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Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 380 MHz(SMD 7.0X5.0mm)

TST Parts No.:TB0458A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Kazuma lee

Approval by:_____ Francis Chen

Date:_____ 2007/03/15



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IF SAW Filter 380 MHz SMD 7X5mm

MODEL NO.: TB0458A

Rev No.1

A. MAXIMUM RATING:

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

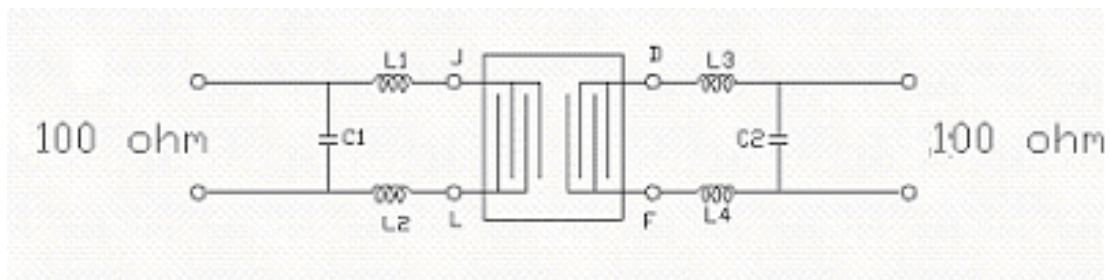
RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

1. Ambient Temperature: 25 °C
2. Optimal Source Impedance(Balanced): 100 ohm
3. Optimal Load Impedance(Balanced): 100 ohm

Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency	F _C MHz	-	380	-	-
Minimum Insertion Loss IL	dB	-	11	12	-
1 dB Lower Frequency	MHz	-	375.5	376.375	-
1 dB Upper Frequency	MHz	383.625	384.8	-	
3 dB Lower Frequency	Mhz	-	375.0	376.0	-
3 dB Upper Frequency	MHz	384	385.4	-	
15 dB Lower Frequency	MHz	372.75	373.7	-	-
15 dB Upper Frequency	MHz	-	386.6	387.25	
35 dB Lower Frequency	MHz	370.0	373.3	-	-
35 dB Upper Frequency	MHz	-	386.9	390.0	
Passband Ripple (376.375~383.625MHz)	dB	-	0.4	1.0	-
Average Group Delay (376.375~383.625MHz)	nS	-	750	850	-
Temp Coefficient	ppm/° C	-23			

C. Measurement Circuit:



$$L1=L2=8.2\text{nH} \quad C1=10\text{pF} \quad L3=L4=8.2\text{nH} \quad C2=10\text{pF}$$

D. Frequency Characteristics :

1. S21 Response

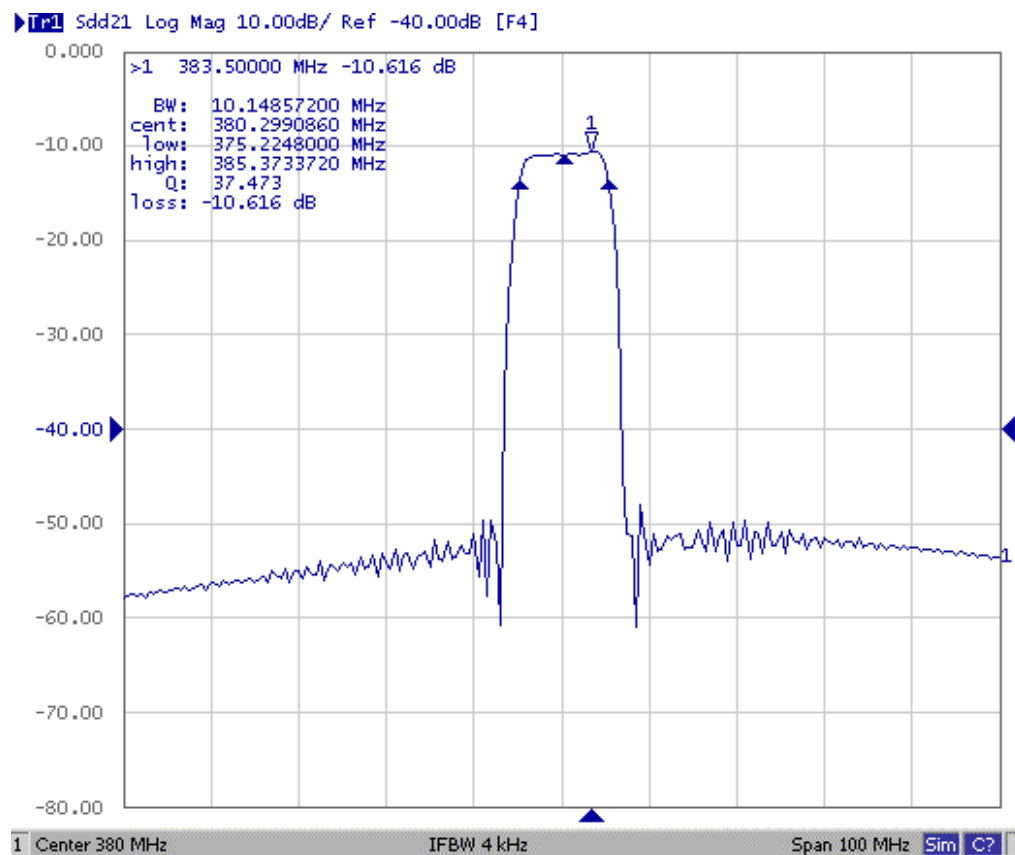


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

2. S21 Response (Amplitude Ripple)

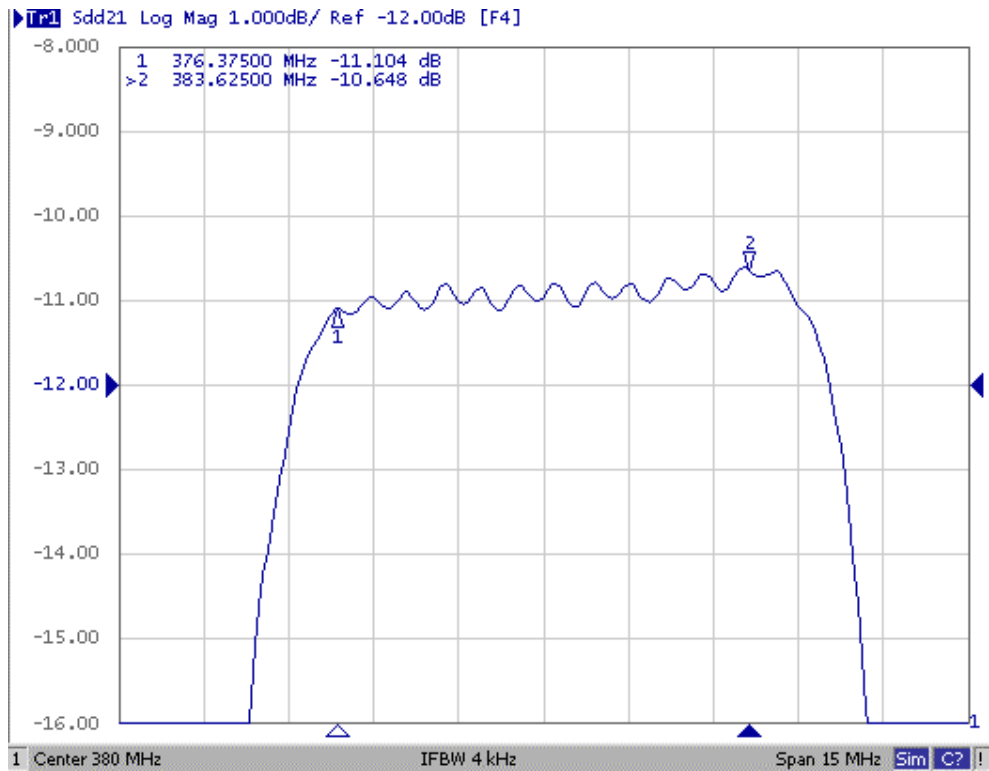


Fig2. Horizontal: 1.5MHz/Div Vertical: 1dB/Div

3. S21 Response (Group delay ripple)

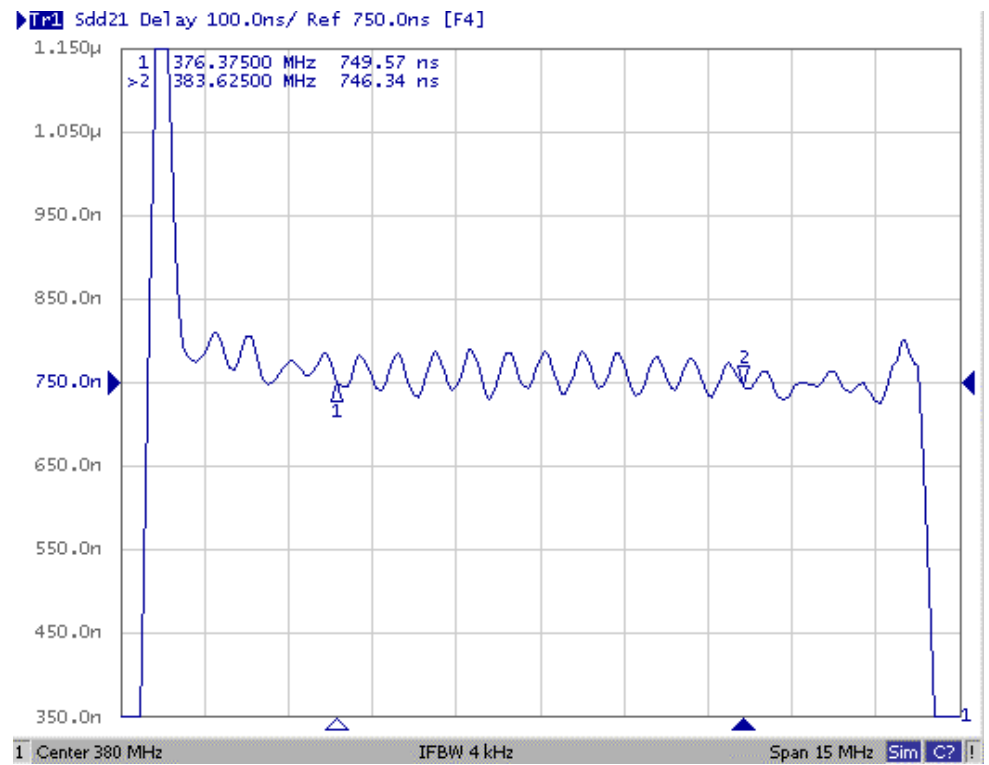
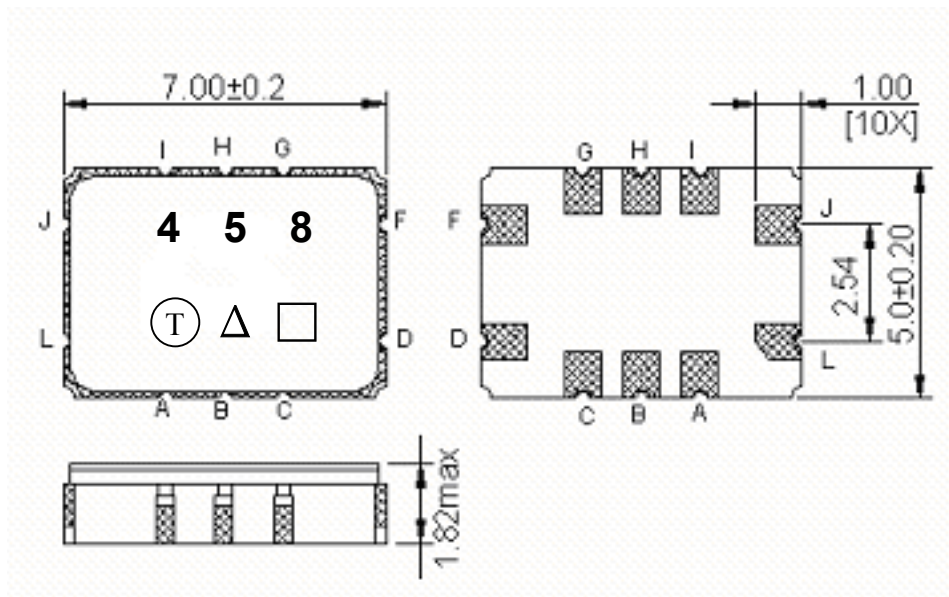


Fig3. Horizontal: 1.5MHz/Div Vertical: 100ns/Div

E. Outline Drawing:



Pin J,L : Balanced Input

Pin F,D : Balanced Output

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

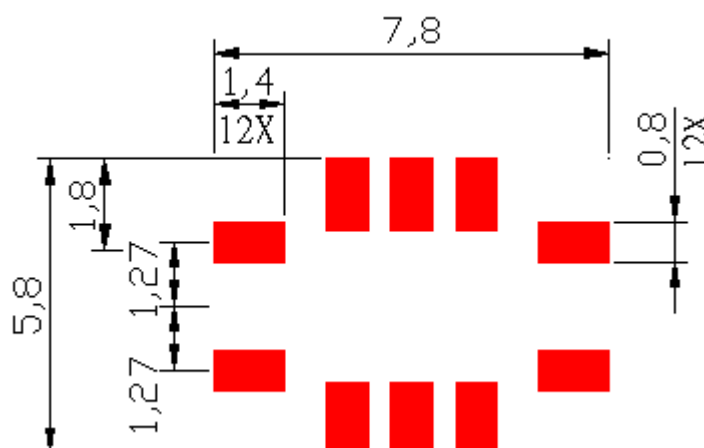
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

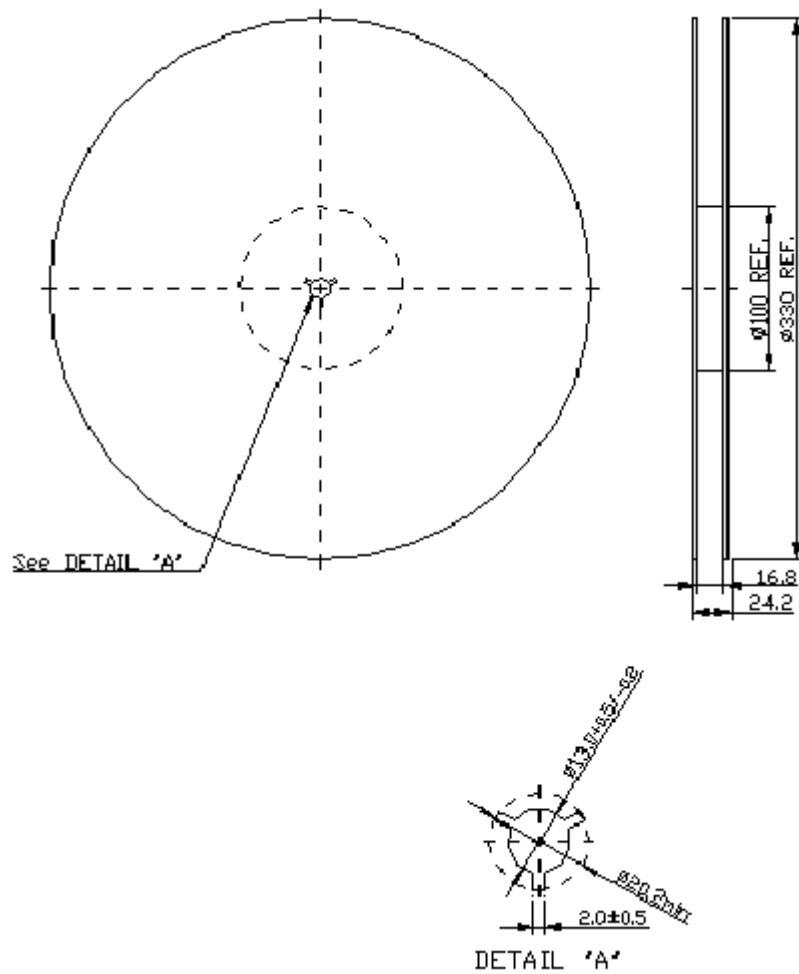
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

D. PCB FOOTPRINT:



F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

