



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 380MHz IF SAW Filter (BW=5 MHz)

TST Parts No.: TB0445A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu

Approval by: _____ Francis Chen

Date: _____ 12/26/2006



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SAW Filter 380MHz (SMD 5.0×7.0 mm)

MODEL NO.: TB0445A

Rev. NO. 1.0

A. MAXIMUM RATINGS:

1. Operating Temperature: -10°C to 75°C
2. Storage Temperature: -40°C to 85°C
3. Input Power: 15dBm

RoHS Compliant
Lead free
Lead-free soldering

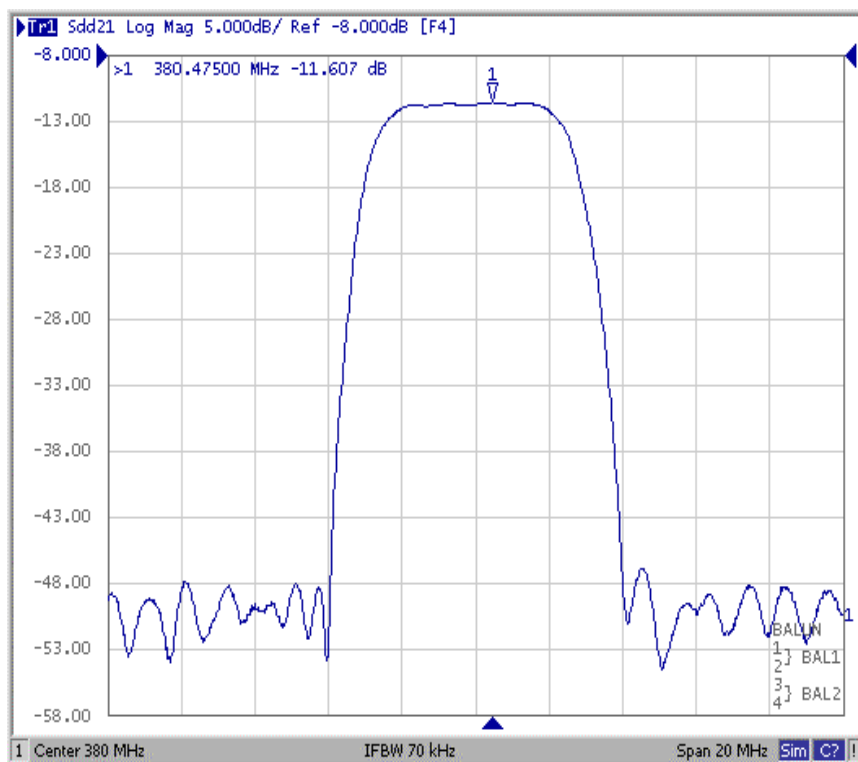
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

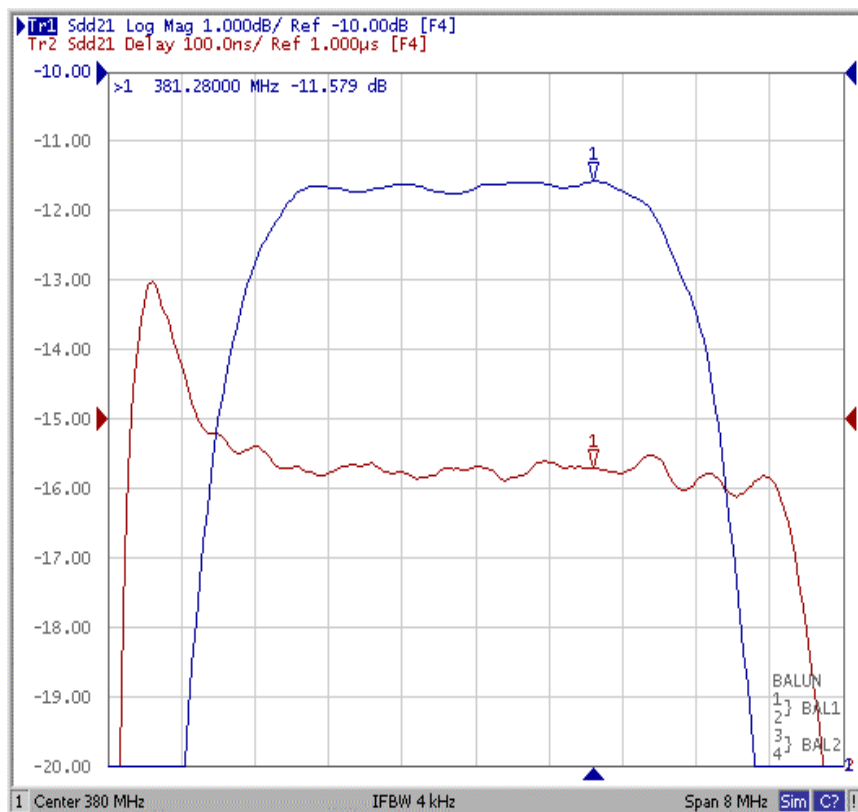
Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency	F _C MHz	-	380	-	-
Minimum Insertion loss	I.L. dB	-	11.5	13.0	-
Lower 1.5 dB Bandwidth	MHz	-	377.67	377.90	-
Upper 1.5 dB Bandwidth	MHz	382.10	382.34	-	
Lower 10 dB Bandwidth	MHz	376.65	376.79	-	-
Upper 10 dB Bandwidth	MHz	-	383.17	383.35	
Lower 20 dB Bandwidth	MHz	376.25	376.40	-	-
Upper 20 dB Bandwidth	MHz	-	383.56	383.75	
Lower 30 dB Bandwidth	MHz	375.85	376.12	-	-
Upper 30 dB Bandwidth	MHz	-	383.83	384.15	
Passband Ripple					
377.9-382.1MHz	dB p-p	-	0.2	1.0	-
Amplitude Variation					
377.9-382.1MHz	dB p-p	-	0.88	1.5	-
Group Delay					
377.9-382.1MHz	usec	-	0.94	-	-
Group Delay Variation					
377.9-382.1MHz	nsec	-	30	120	-
Source Impedance (Balanced)	ohm	-	100	-	-
Load Impedance (Balanced)	ohm	-	100	-	-

C. FREQUENCY CHARACTERISTICS

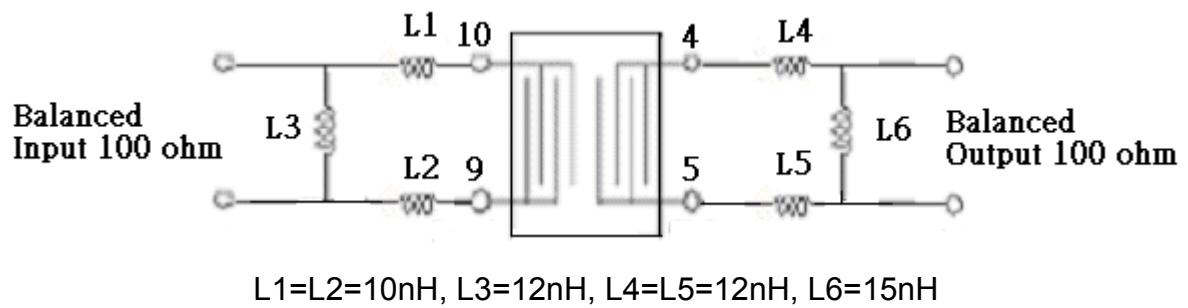
(1) S21 Response: (span 20MHz)



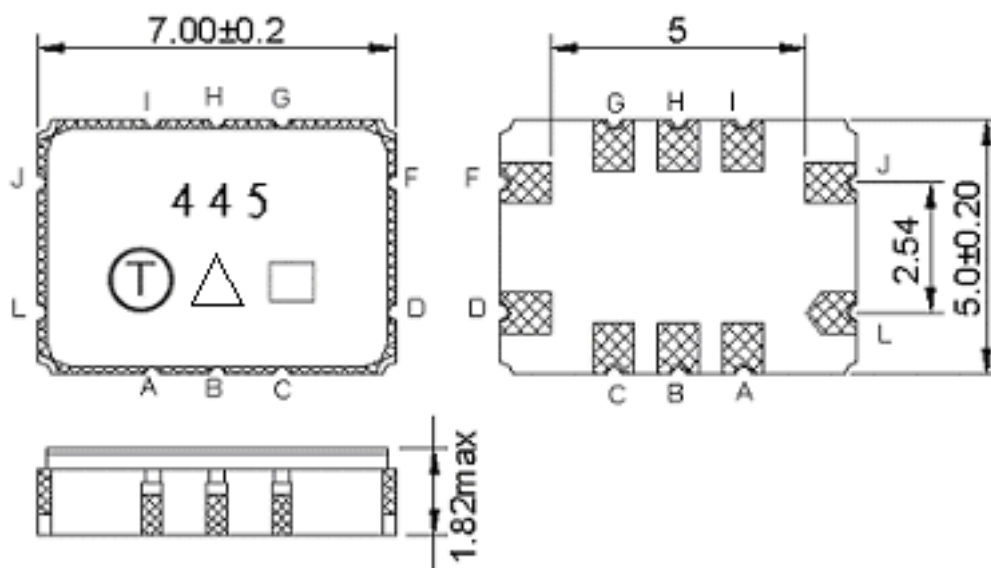
(2) Passband Response: (span 8MHz)



D. TEST CIRCUIT:



E. OUTLINE DRAWING:



Pin J : Input or Balance Input

Pin L : Input or Balance Input

Pin D: Output or balanced Input

Pin F : Output or balanced Input

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

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

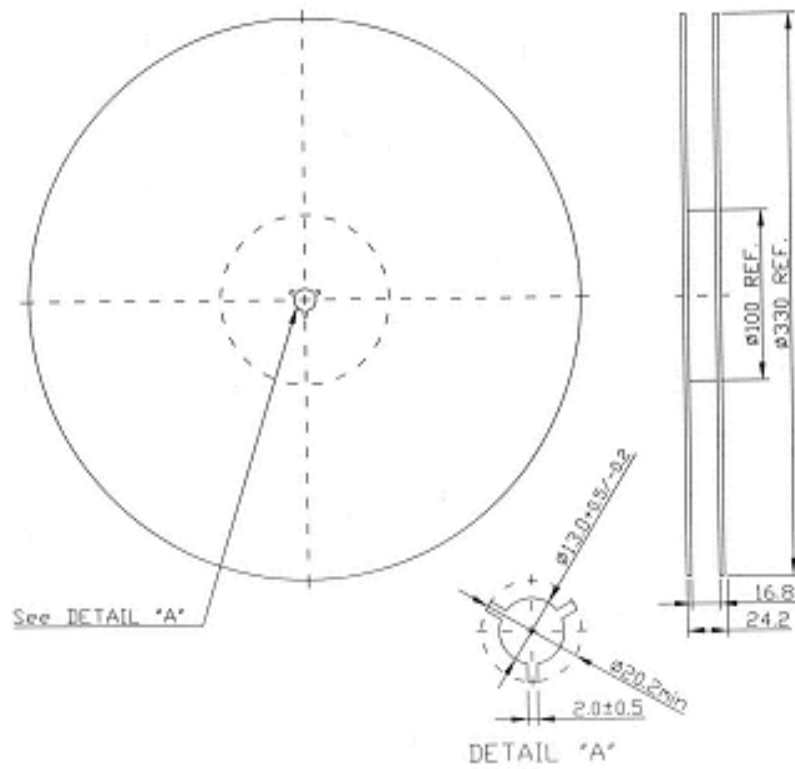
Unit : mm

△ : Product / Year Code

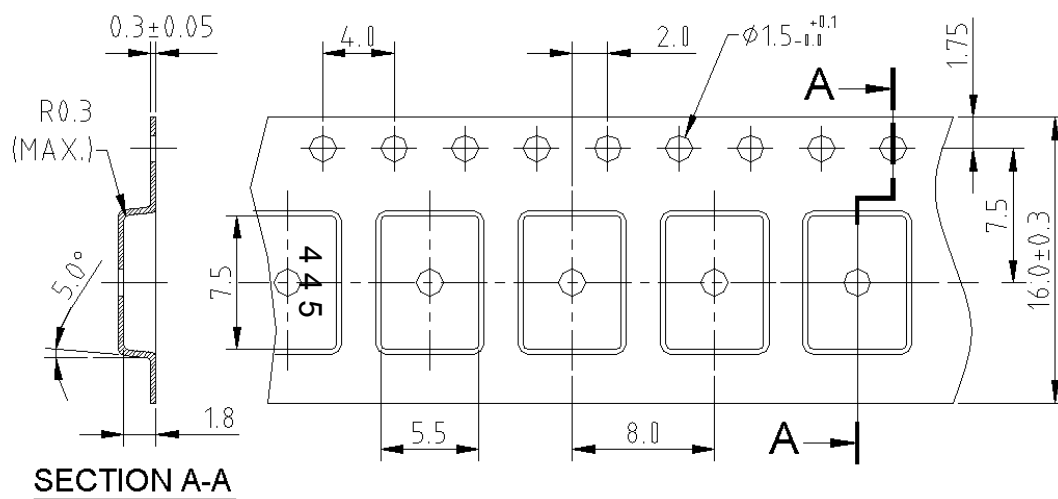
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Direction of feed

G. Recommended Reflow Profile:

