



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 288MHz IF SAW Filter (BW=5 MHz)

TST Parts No.: TB0587A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Andy Yu

Approval by: Francis Chen

Date: 02/01/2008



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IF SAW Filter 288MHz(BW=5MHz) SMD 5X5mm

MODEL NO.: TB0587A

Rev. NO. 1

A. MAXIMUM RATING:

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

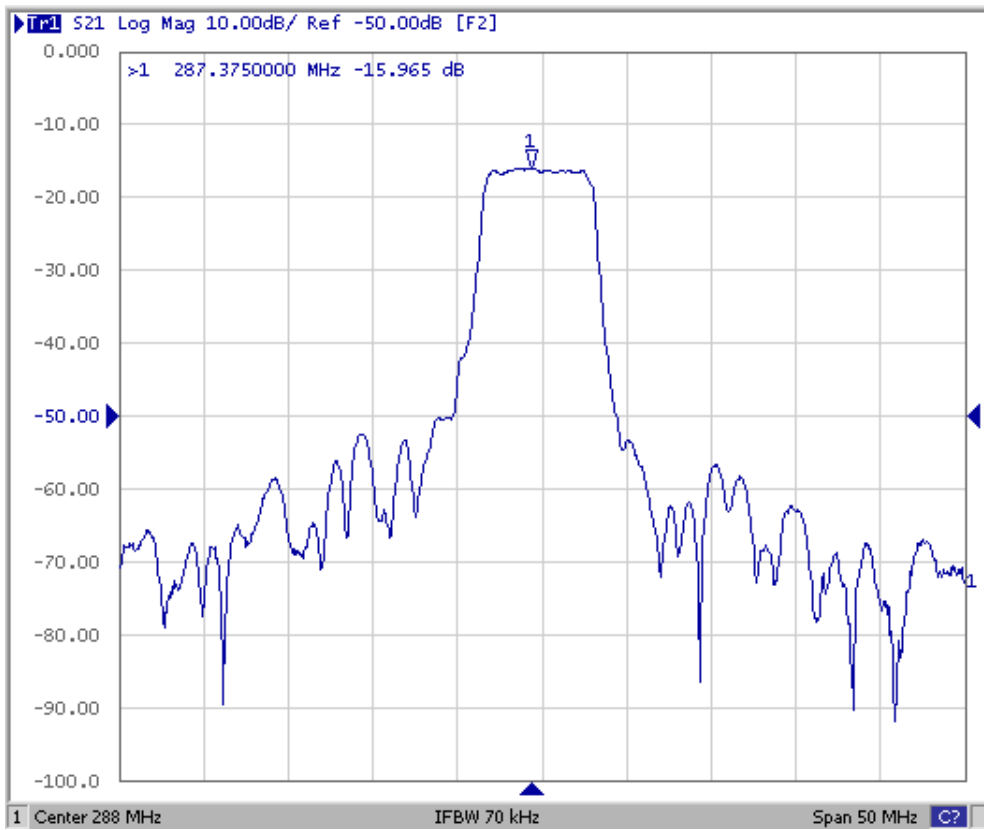
RoHS Compliant
 Lead free
 Lead-free soldering

B. Characteristics :

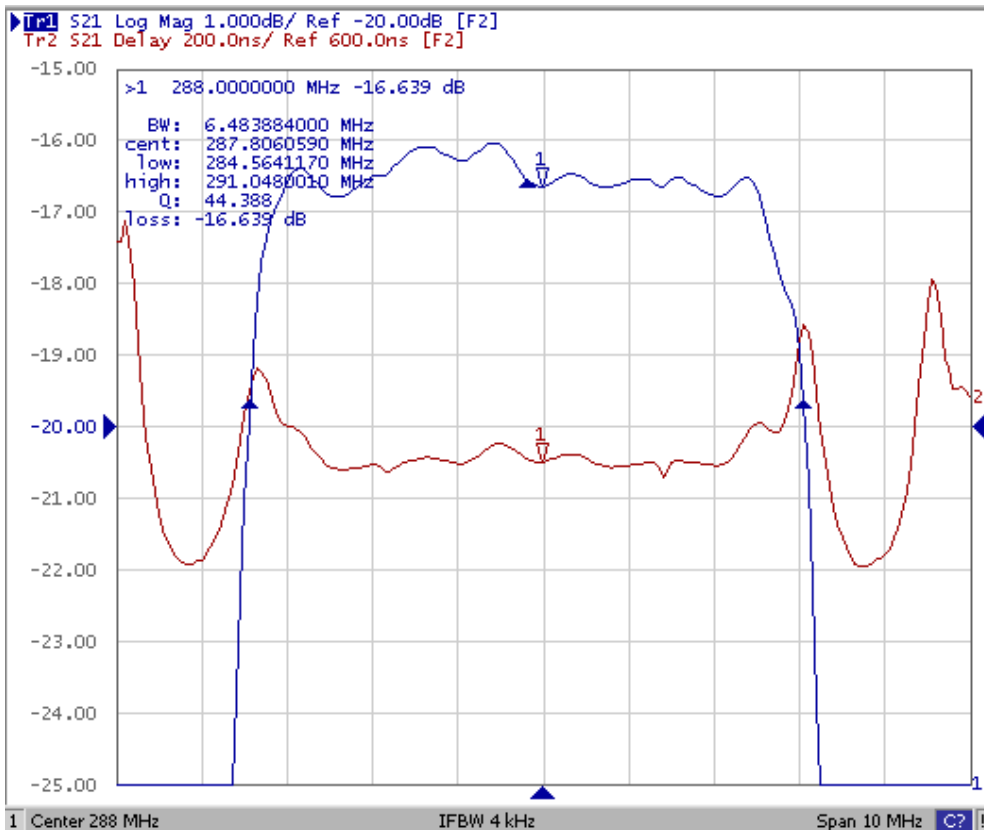
Characteristics	Value			Wanted
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	288	-	-
Minimum Insertion loss I.L. dB	-	15.8	17.0	-
1.5 dB Bandwidth MHz	5.6	6.23	-	-
Amplitude Ripple ($F_c \pm 2.5\text{MHz}$) dB	-	0.8	1.2	-
Group-delay Ripple ($F_c \pm 2.8\text{MHz}$) nsec	-	140	200	-
Average-delay ($F_c \pm 2.8\text{MHz}$) usec		0.55		
Input Output Return Loss at F_c dB	9	11		
Temp Coefficient PPM/ °C ²		0.032		
Attenuation (Reference level from Minimum insertion loss)				
(1) $F_c \pm 4.30\text{MHz}$ dB	18	23	-	
(2) $F_c \pm 7.10\text{MHz}$ dB	38	42	-	
(3) $F_c \pm 9.30\text{MHz}$ dB	43	48	-	
(4) $F_c \pm 18.6\text{MHz}$ dB	45	55	-	

C. Frequency Characteristics :

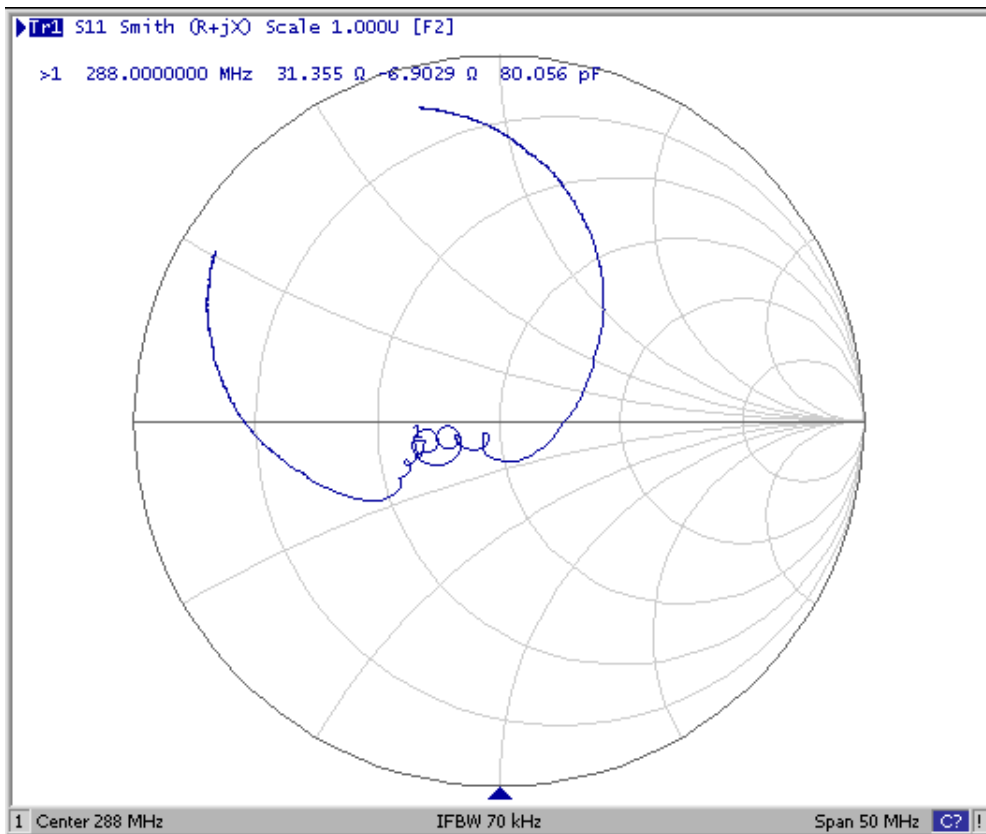
1. S21 Response:(span 50MHz)



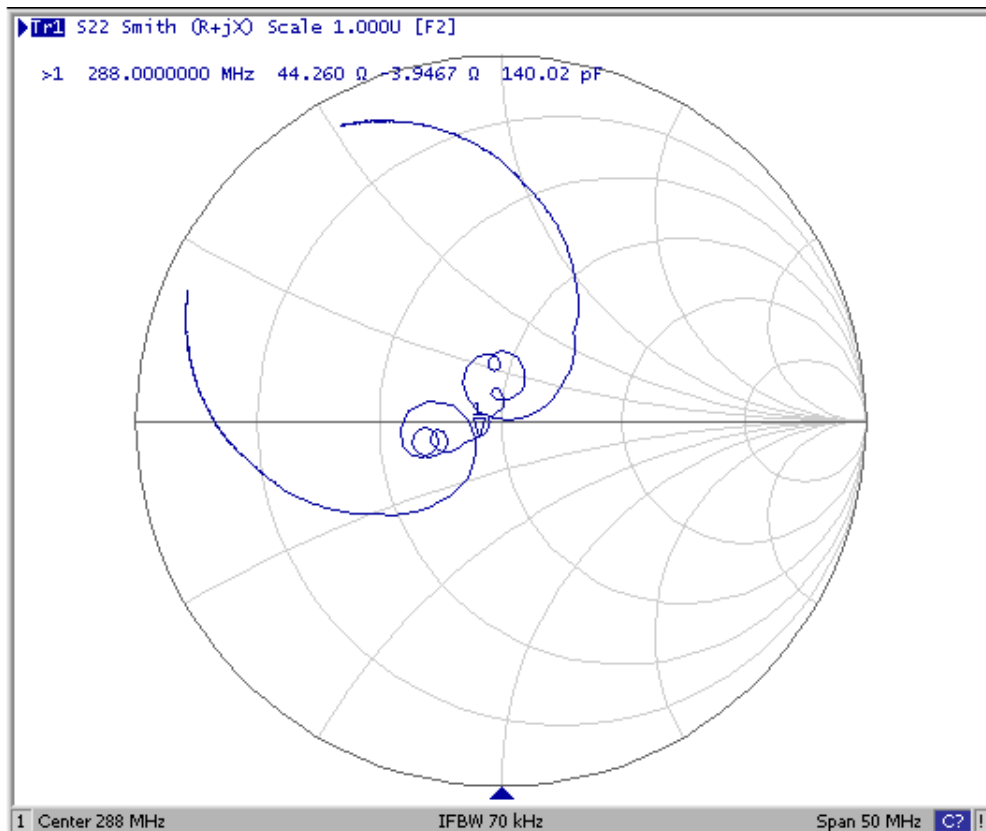
2. Passband Response: (span 10MHz)



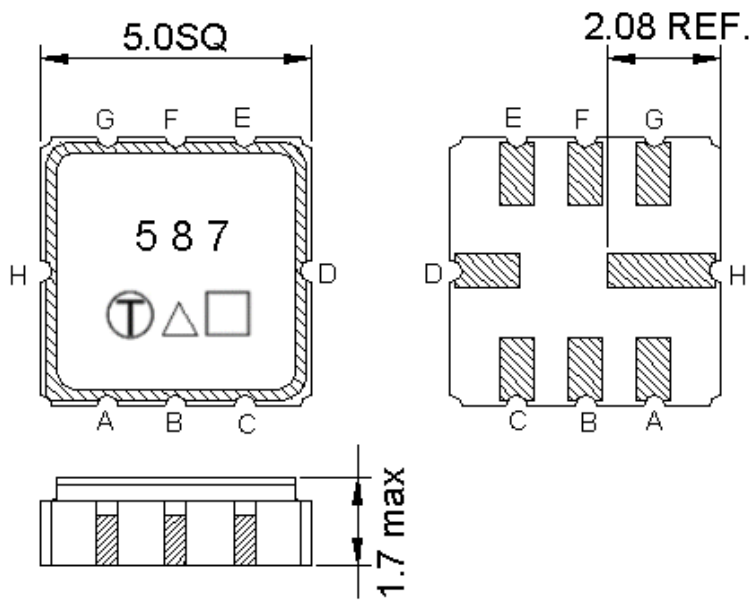
3. S11 Smith-Chart: (span 50MHz)



4. S22 Smith-Chart: (span 50MHz)



D. Outline Drawing:



Pin A: RF input

Pin E: RF output

Pin H,D: Case Ground

Pin B,C,G,F: Ground

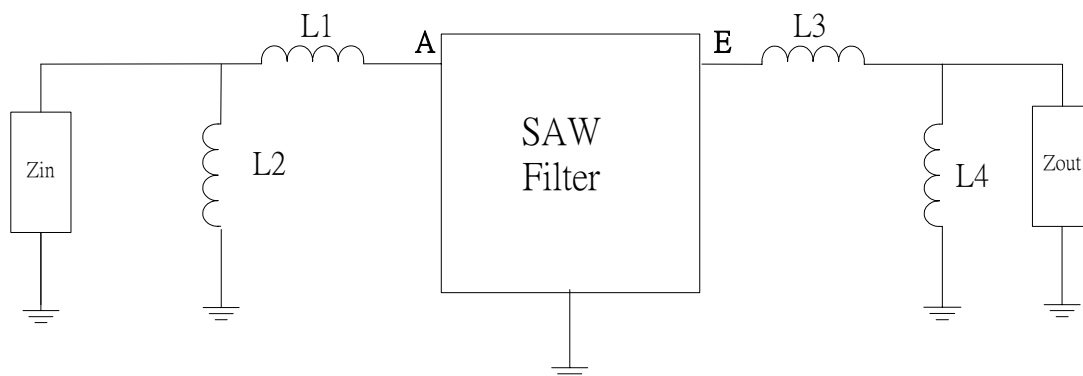
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

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

E. Matching Circuit:

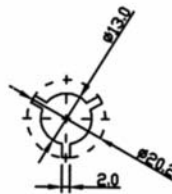
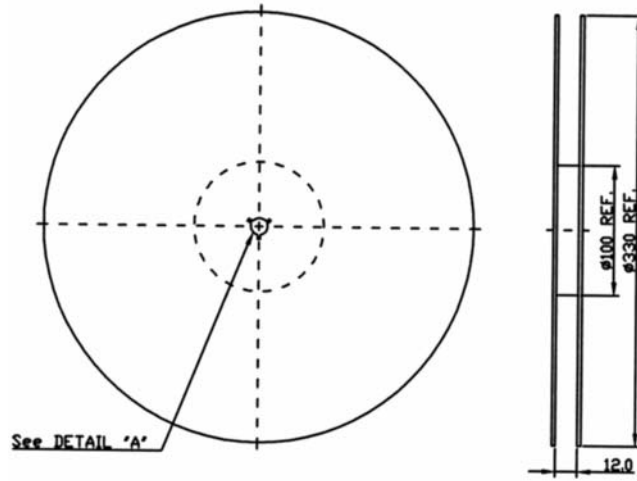


Z_{in} and Z_{out} are $50\ \Omega$

$L1=47\text{nH}$, $L2=8.2\text{nH}$, $L3=45\text{nH}$, $L4=8.2\text{nH}$

F.PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION

