



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 133.2MHz IF SAW Filter (BW=0.2 MHz)

TST Parts No.: TB0816A

Customer Parts No.: _____

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

Checked by: Andy Yu *Andy Yu*

Approval by: Francis Chen *FC*

Date: 03/17/2010

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes

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<p>TST DCC Release document</p>
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FR-71S03-02



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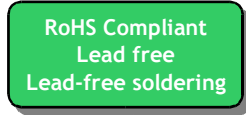
SAW Filter 133.2MHz (SMD 5.0×7.0 mm)

MODEL NO.: TB0816A

Rev. NO. 1.0

A. MAXIMUM RATINGS:

1. Operating Temperature: -40°C to 85°C
2. Storage Temperature: -40°C to 85°C
3. Input Power: 18dBm



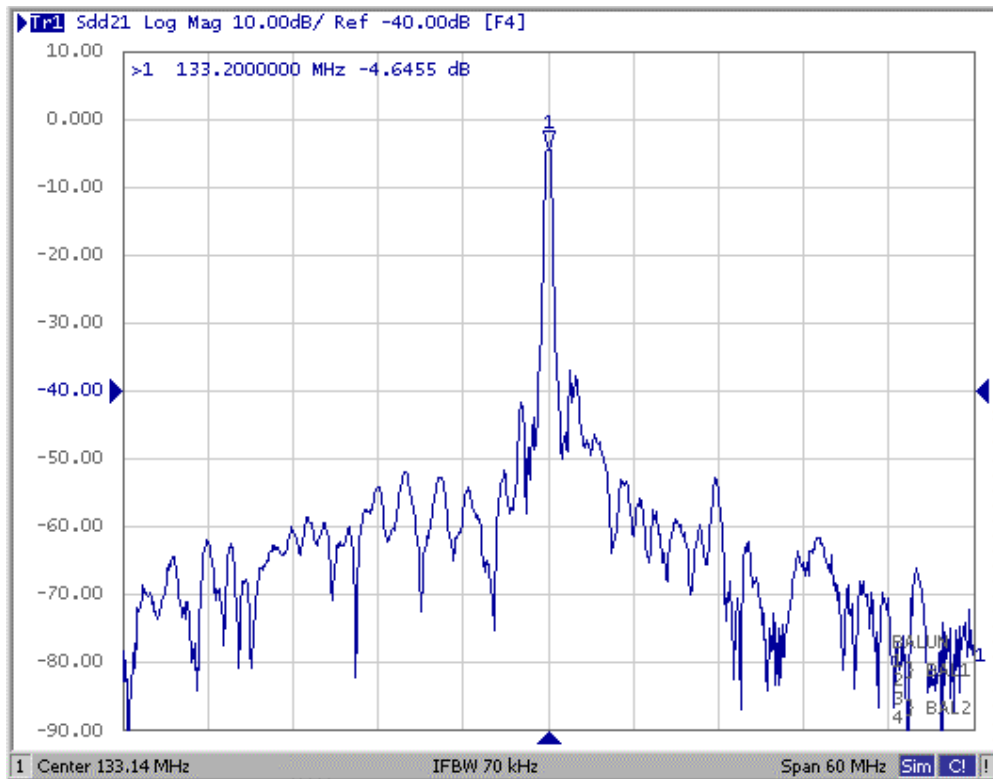
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

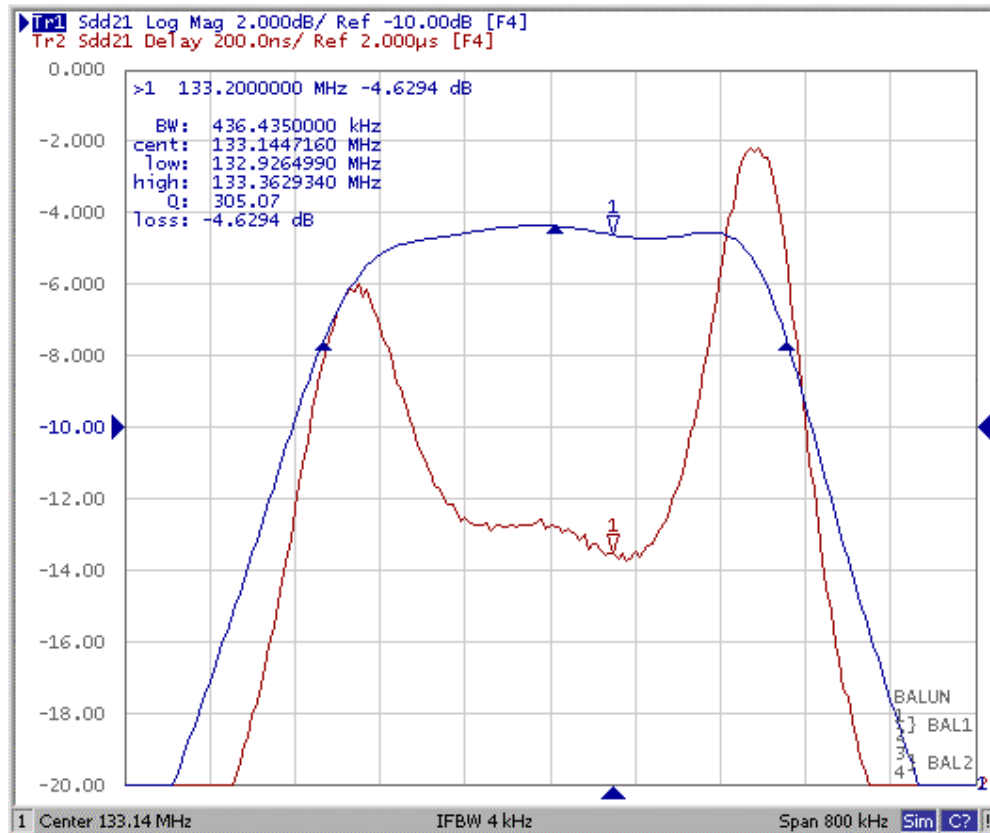
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_C MHz	-	133.2	-	
Temperature Coefficient ppm/°C		-0.036		
Insertion Loss at F_o (including losses in matching circuit) MHz	-	4.5	8.0	
Amplitude ripple variation ($F_o \pm 100\text{KHz}$) dB _{p-p}	-	0.5	1.0	
Group Delay variation ($F_o \pm 100\text{KHz}$) nsec	-	300	1000	
Relative Attenuation dBc				
$F_c \pm 250\text{KHz} \sim F_c \pm 400\text{KHz}$	3	5	-	
$F_c \pm 400\text{KHz} \sim F_c \pm 600\text{KHz}$	15	16	-	
$F_c \pm 600\text{KHz} \sim F_c \pm 800\text{KHz}$	20	28	-	
$F_c \pm 800\text{KHz} \sim F_c \pm 3.0\text{MHz}$	29	31	-	
$F_c \pm 3.0\text{MHz} \sim F_c \pm 7.0\text{MHz}$	35	42	-	
$F_c \pm 7.0\text{MHz} \sim F_c \pm 30.0\text{MHz}$	40	47	-	
Source Impedance (Single/Balanced) Ω	-	50/200	-	
Load Impedance (Single/Balanced) Ω	-	50/200	-	

C. Frequency Characteristics : _

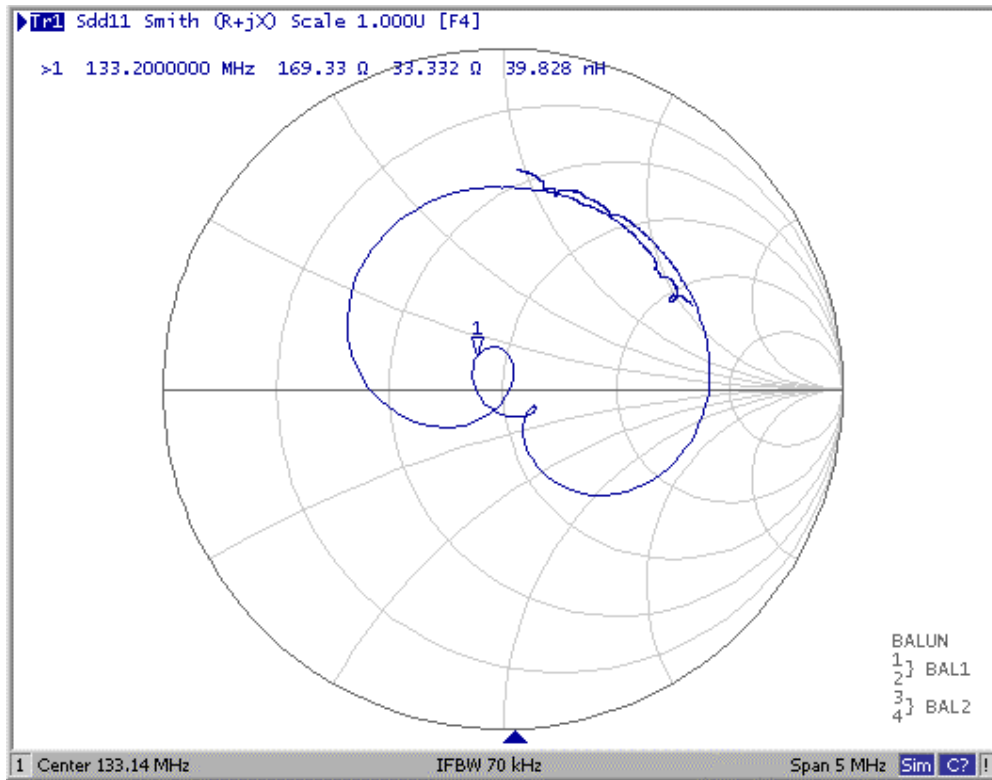
1. S21 Response: (span 60MHz)



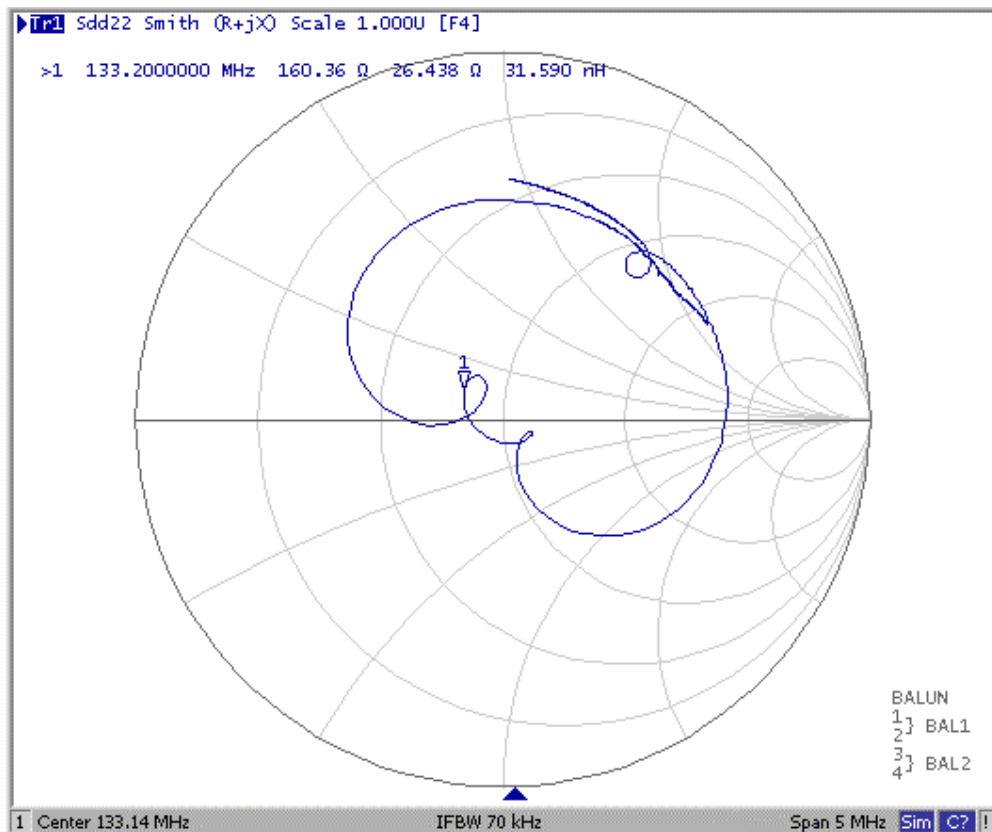
2. S21 Response: (span 0.8MHz)



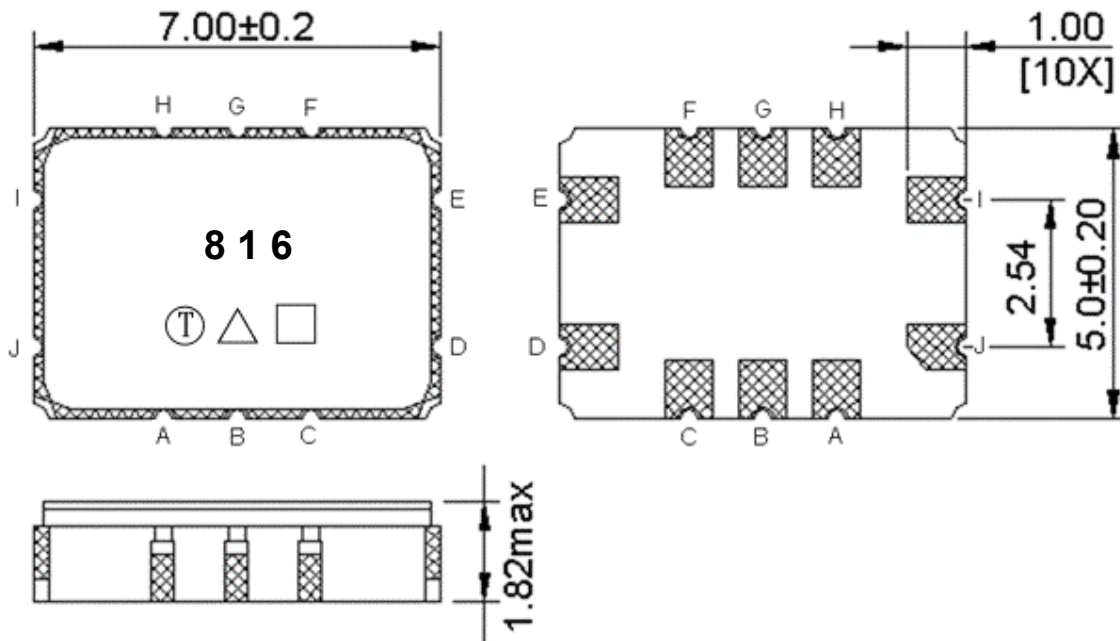
3. S11 Smith-Chart: (span 5MHz)



4. S22 Smith-Chart: (span 5MHz)



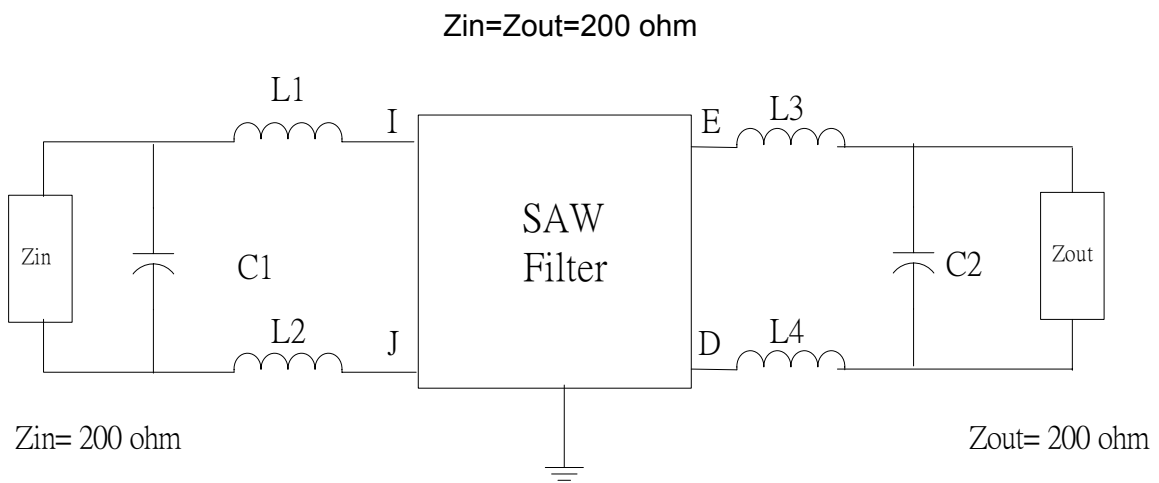
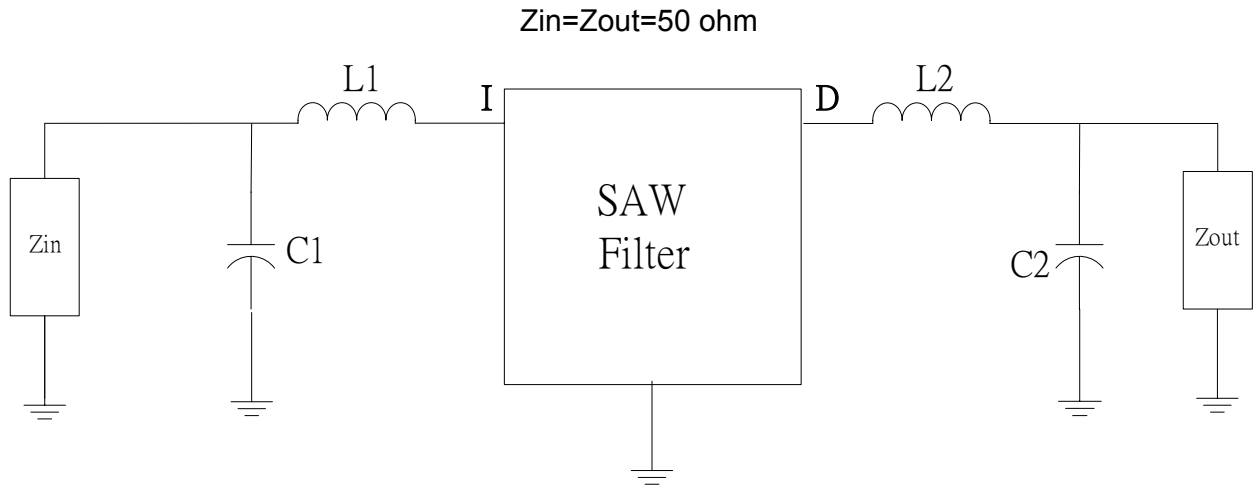
D. Outline Drawing:



- Pin I: RF input or balanced input+
- Pin J: Ground or balanced input-
- Pin D: RF output or balanced output+
- Pin E: Ground or balanced output-
- Pin A, B, C, F, G, H: To be Ground
- : Week Code (Follow the table from planner each year)
- Unit : mm (week01, 02, 03...52 =>A, B, C...z)
- △ : Product / Year Code

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

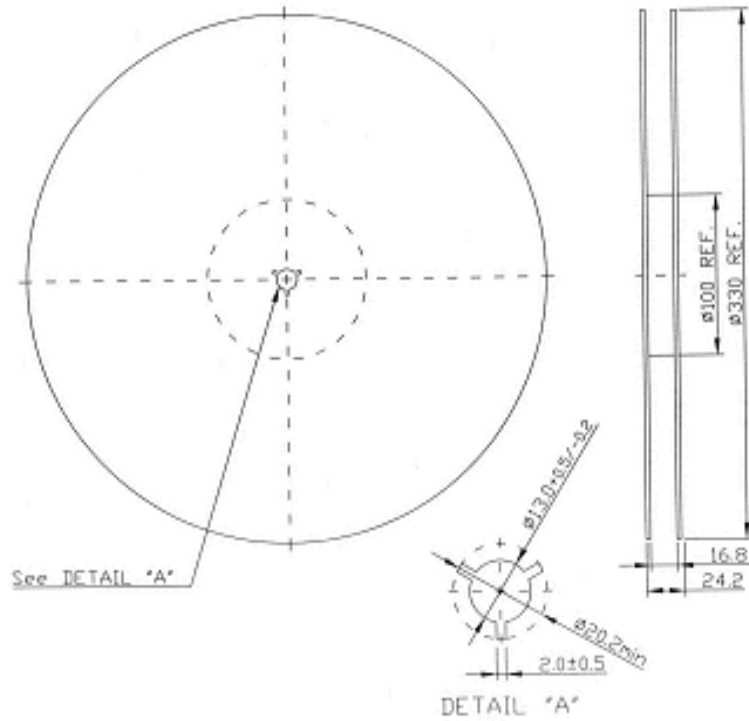
E. Matching Circuit Configuration:



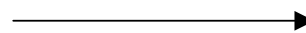
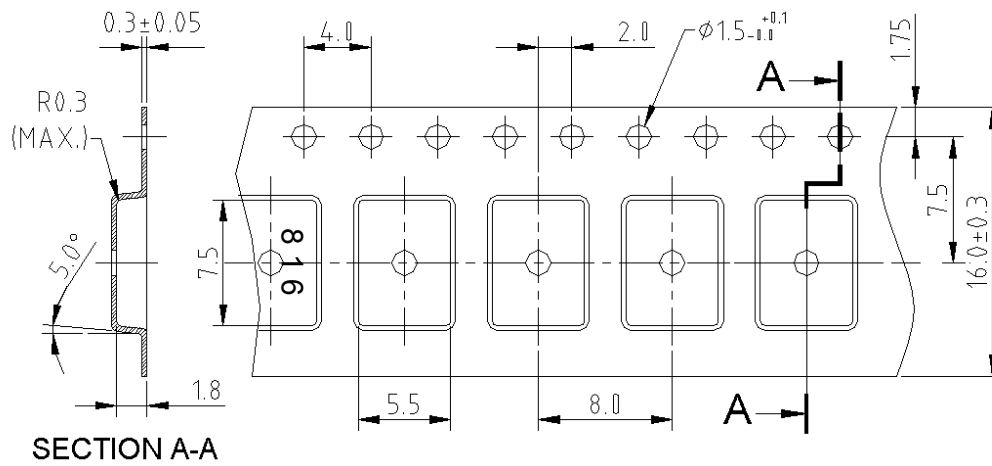
$L1=L2=280\text{nH}, C1=9\text{pF}, L3=L4=280\text{nH}, C2=9\text{pF}$

F.PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Direction of feed

G. Recommended Reflow Profile:

