



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: 130.34 MHz 27MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB1114A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee

Approval by: _____ Bob Chau

Date: _____ 04 / 09 / 2013

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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SAW Filter 130.34MHz 27MHz BW (SMD 13.3×6.5 mm)

MODEL NO.: TB1114A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 65°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	130.34	-
Insertion Loss, IL	dB	-	13.8	16.0
1dB Band Width	MHz	27.0	29.4	
Amplitude Ripple F _c +/-12.5MHz	dB	-	0.6	1.0
Group Delay F _c +/-12.5MHz	ns	-	50	80
Absolute Group Delay at F _c	ns	-	1270	-
Attenuation (Reference level from typical Insertion loss)				
DC ~104 MHz	dB	40	47	
153 MHz ~ 800 MHz	dB	40	46	
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Narrow band Response:(span 200MHz)

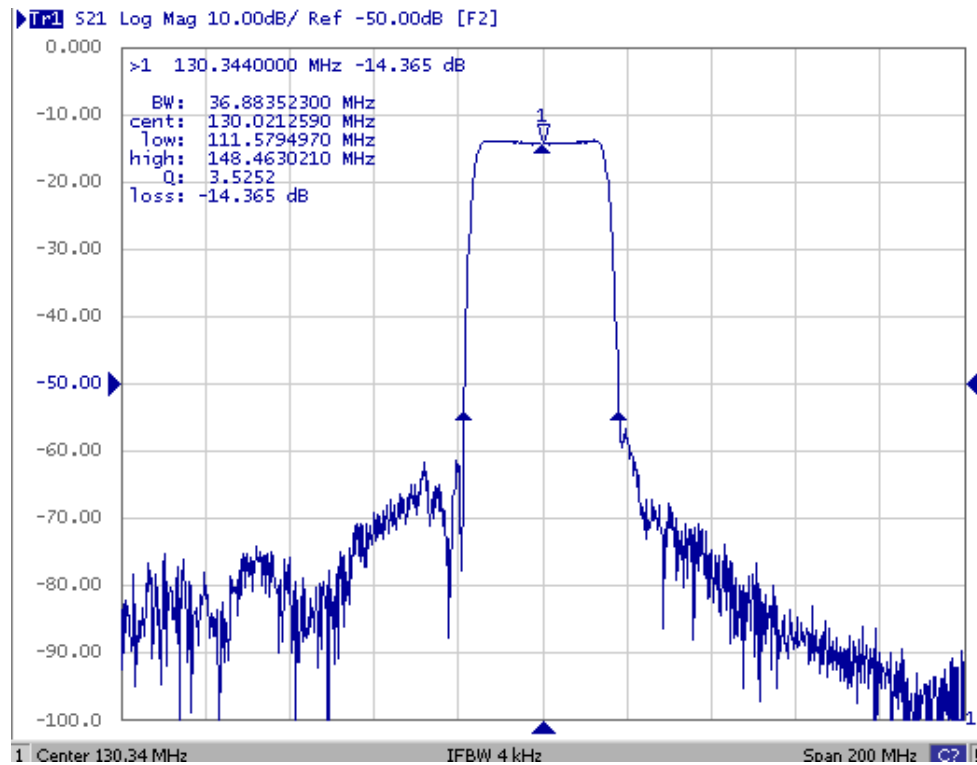


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay Response:

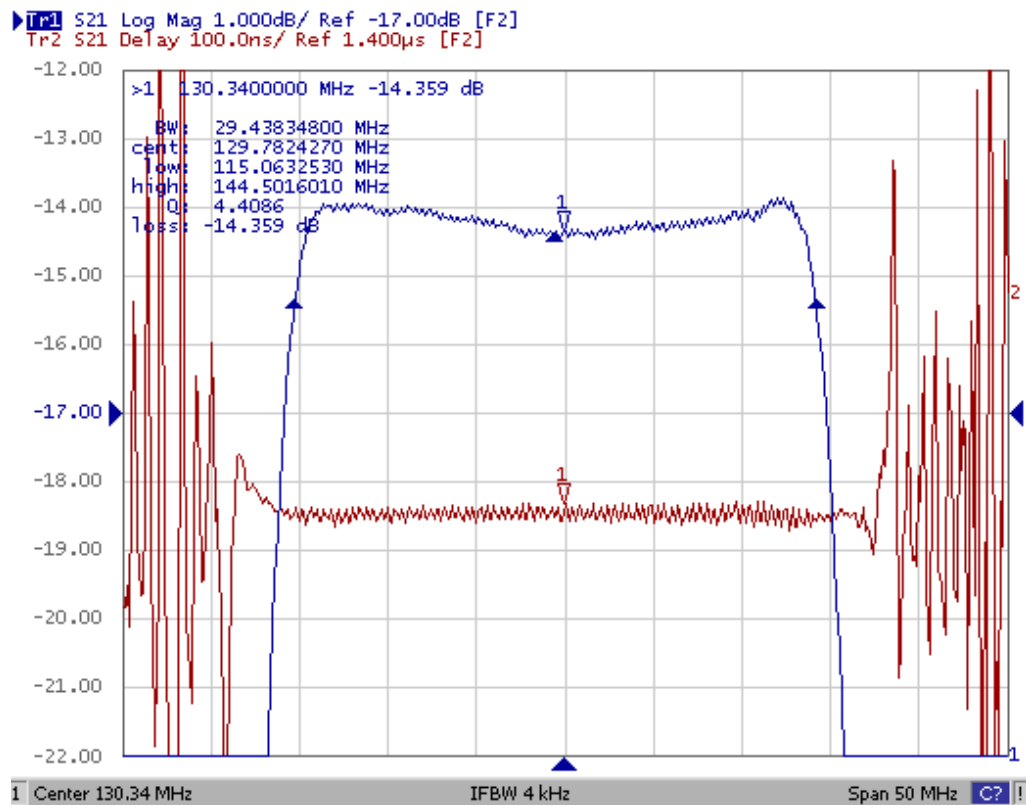


Fig2. Horizontal: 4MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Smith Chart

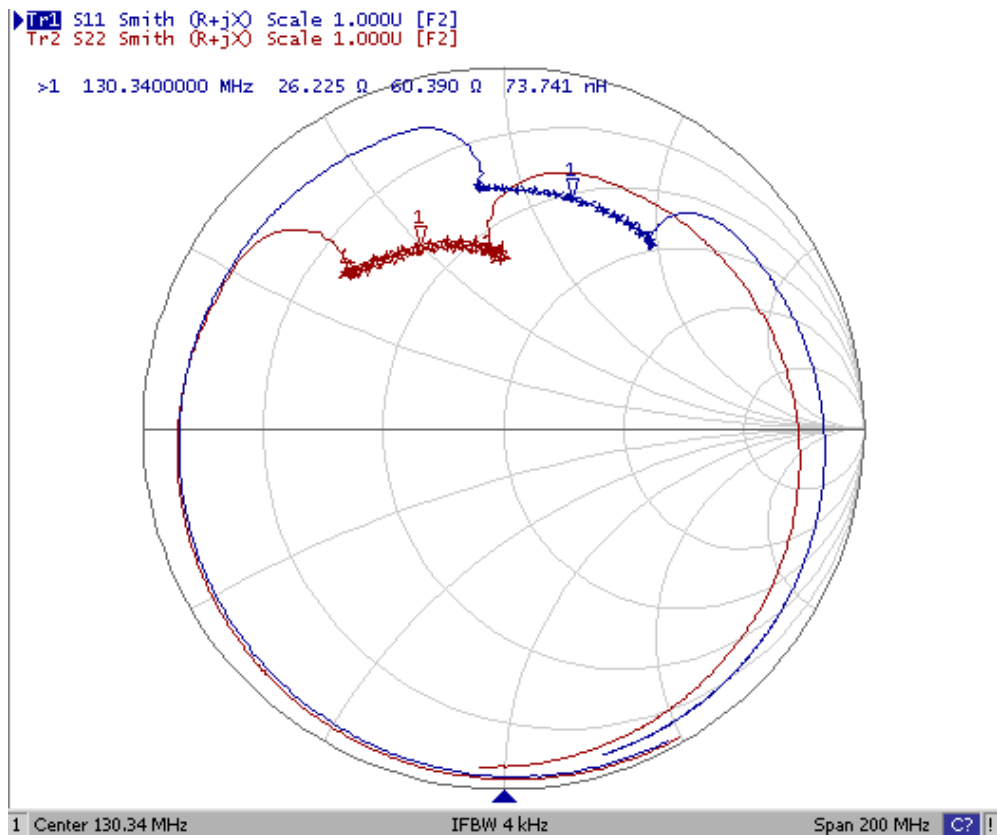


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

(4) Wide band Response:

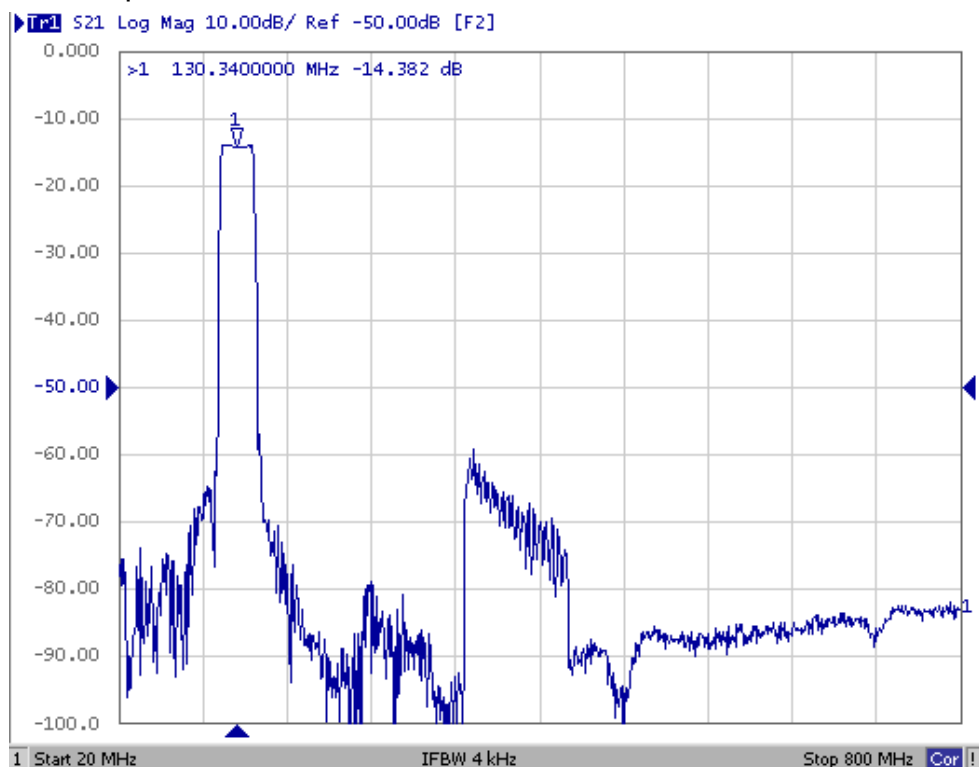
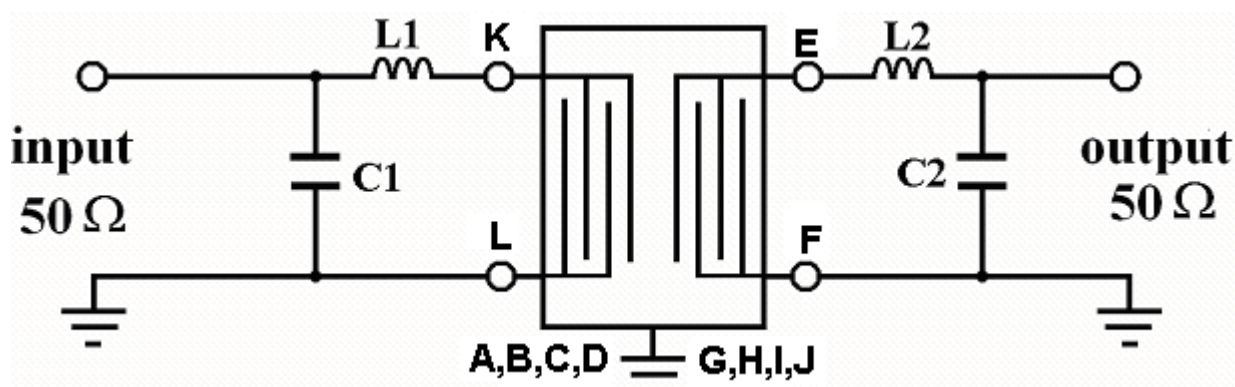


Fig2. Horizontal: 4MHz/Div Vertical: 1dB/Div

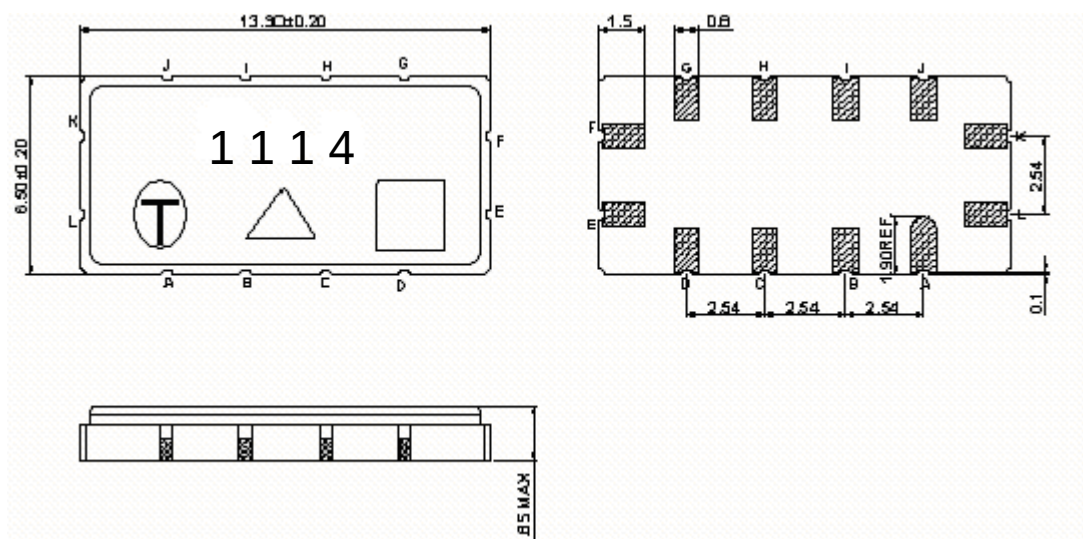
Vertical: 100ns/Div

D. Matching Circuit:



$$L1=68\text{nH} \quad C1=15\text{pF} \quad L2=56\text{nH} \quad C2=20\text{pF}$$

E. Outline Drawing:



#K : Input

#L : Input Ground

#E : Output

#F : Output Ground

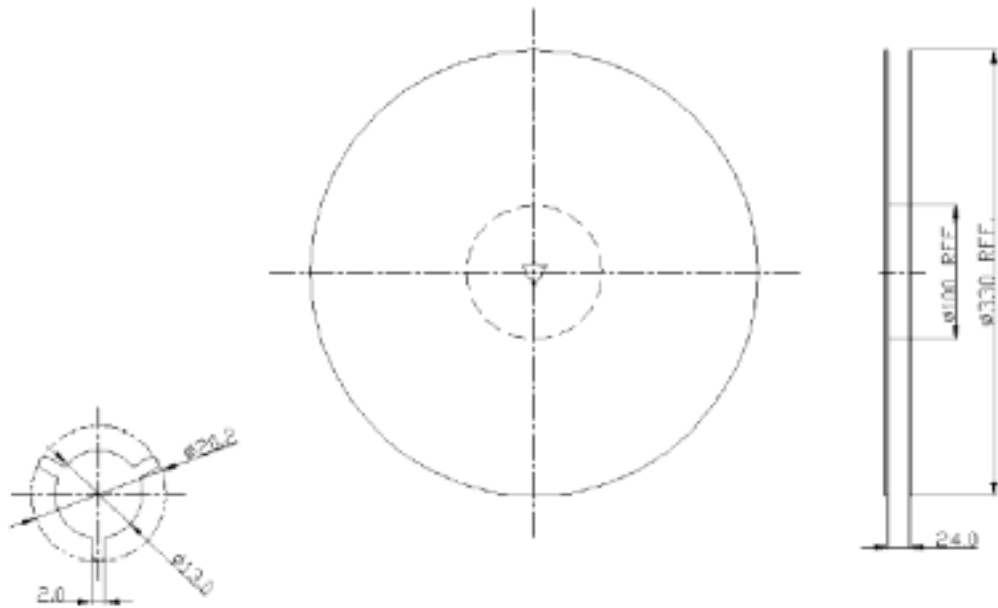
#A,B,C,D,G,H,I,J : Ground

: Week Code

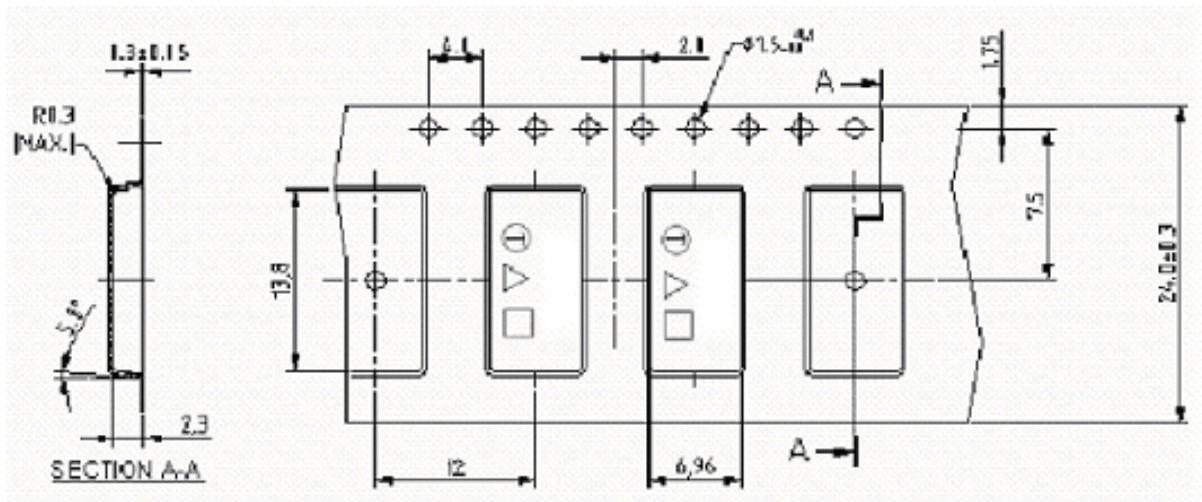
Unit: mm

: Product / Year Code

Year	2013 20173	2014 2018	2015 2019	2016 2020
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2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

