



TAI-SAW TECHNOLOGY CO., LTD.

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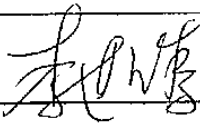
Product Specifications Approval Sheet

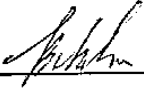
Product Description: 46.3 MHz 21MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1124A

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Bob Chau 

Date: _____ 10 / 18 / 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 46.3MHz 21MHz BW (SMD 7.0x5.0 mm)

MODEL NO.: TB1124A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -55°C to 85°C
2. Storage temperature range: -55°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	-	46.3	-
Insertion Loss, IL	dB	-	19.5	24.0
3dB Bandwidth	MHz	21.0	22.1	-
35dB Bandwidth	MHz	-	27	-
Passband Ripple F _c +/- 9.0MHz	dB	-	0.7	1.5
Absolute group Delay	us	-	0.75	-
Group Delay variation F _c +/- 9.0MHz	ns	-	75	-
Attenuation (Reference level from minimum Insertion loss)				
62.3MHz~82.3MHz	dB	22	28	-
82.3MHz~150MHz	dB	30	35	-
150MHz~500MHz	dB	40	50	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	200	-
Load Impedance	Ohm	-	200	-

C. Frequency Characteristics :

(1) Wide band Response:

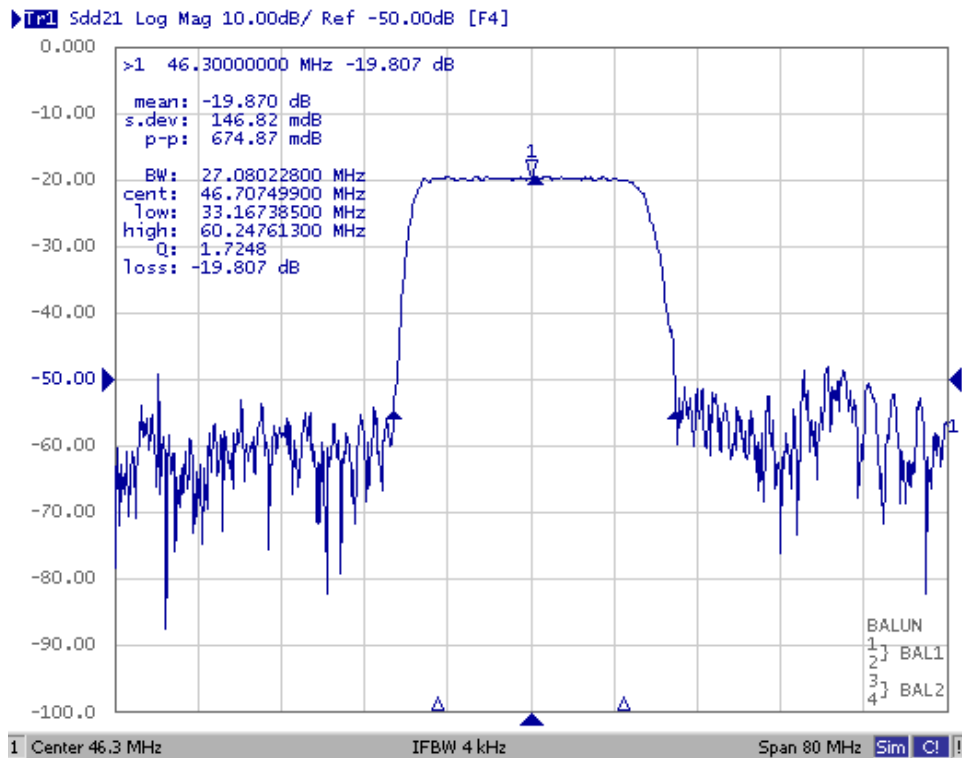


Fig1. Horizontal: 8MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Delay Response:

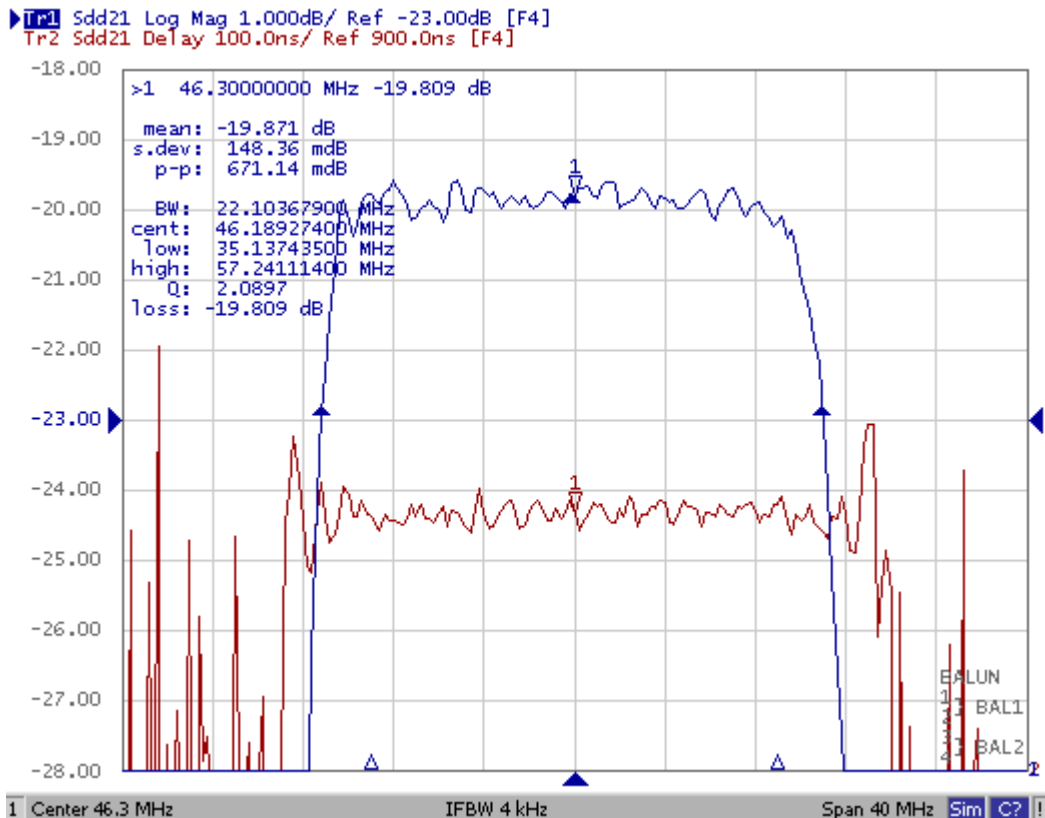


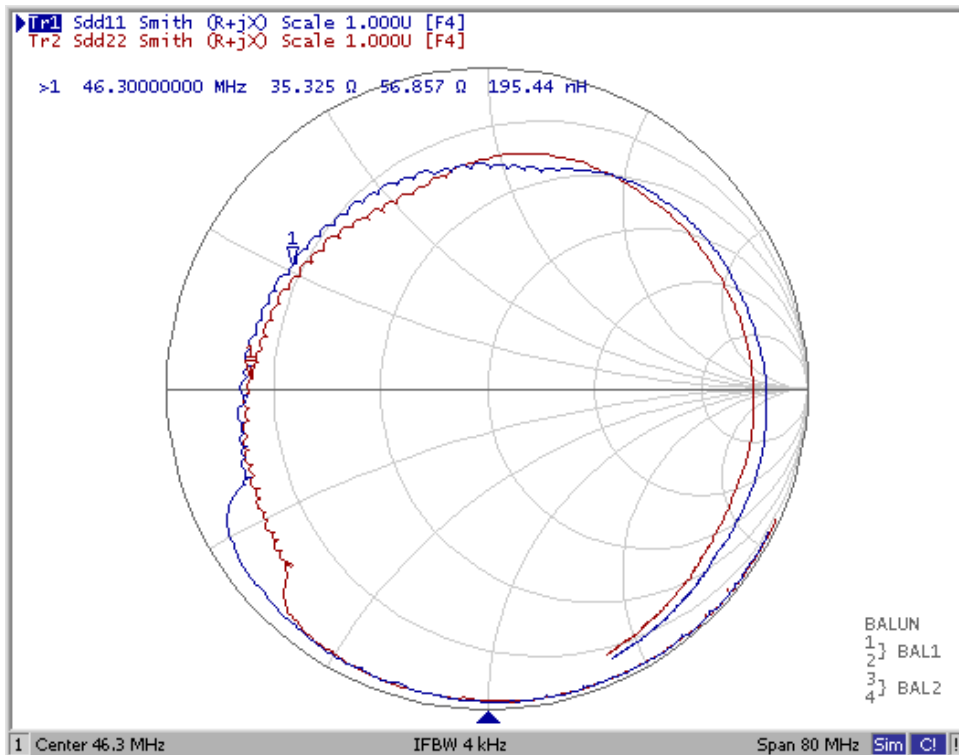
Fig2. Horizontal: 4MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Wide band Response:

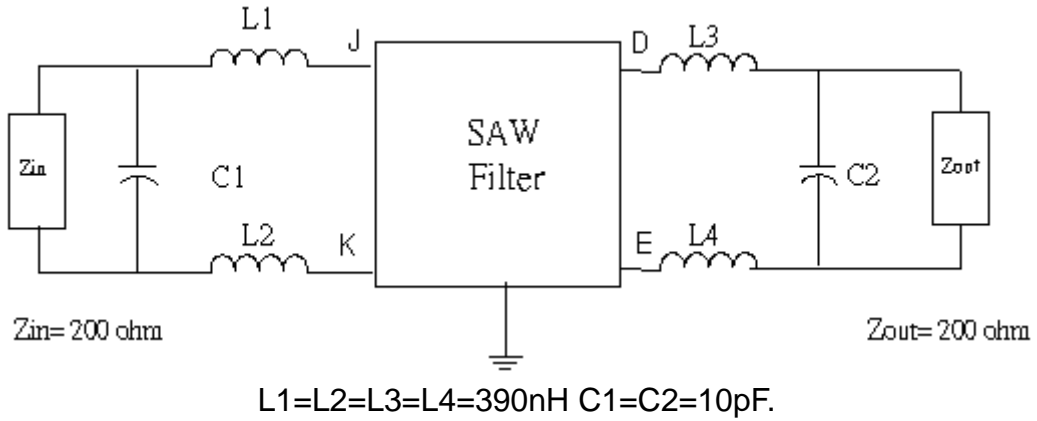


Fig1. Horizontal: 50MHz/Div Vertical: 10dB/Div

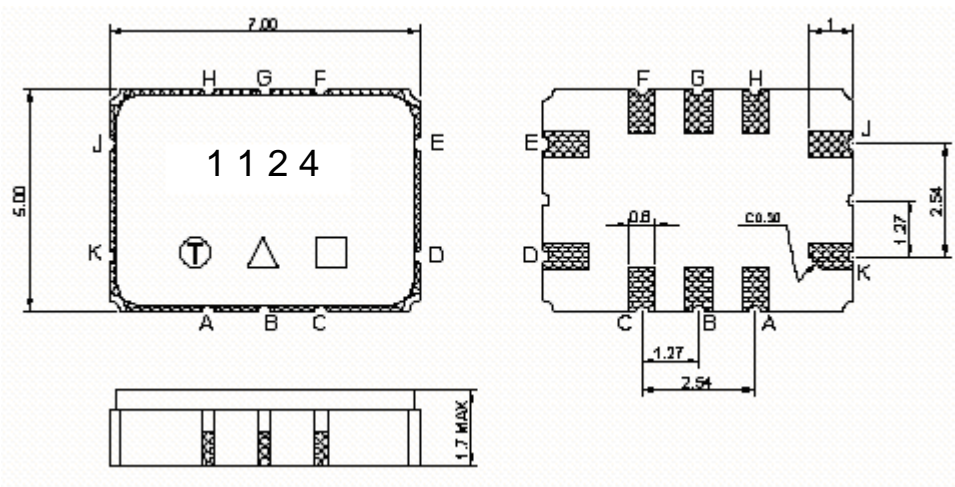
(4) Smith Chart



D. Matching Circuit:



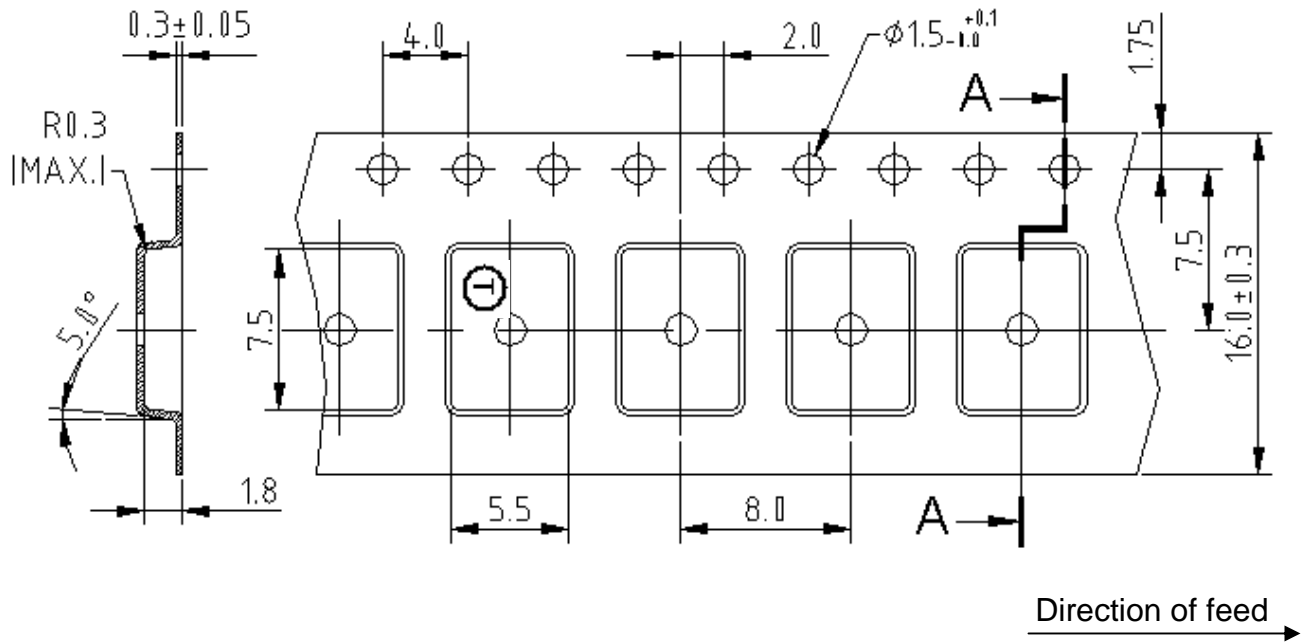
E. Outline Drawing:



- Pin J –RF input
- Pin K –RF balance input or to be ground
- Pin D –RF output
- Pin E –RF balance output or to be ground
- Pin A,B,C,F,G,H - Ground
- : Week Code (Follow the table from planner each year)
- Unit : mm
- : Product / Year Code

Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	B	b	<u>B</u>	<u>b</u>

2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE_:

