



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: 145MHz 0.125MHzBW SMD 7.0mm x 5.0mm SAW IF Filter

TST Parts No.: TB1318A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 10 / 20 / 2018

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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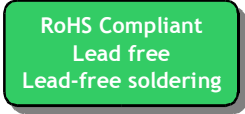
SAW Filter 145MHz 0.125MHz BW (SMD 7.0x5.0mm)

MODEL NO.: TB1318A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V
5. Moisture Sensitivity Level: Level 1(MSL1)



Electrostatic Sensitive Device

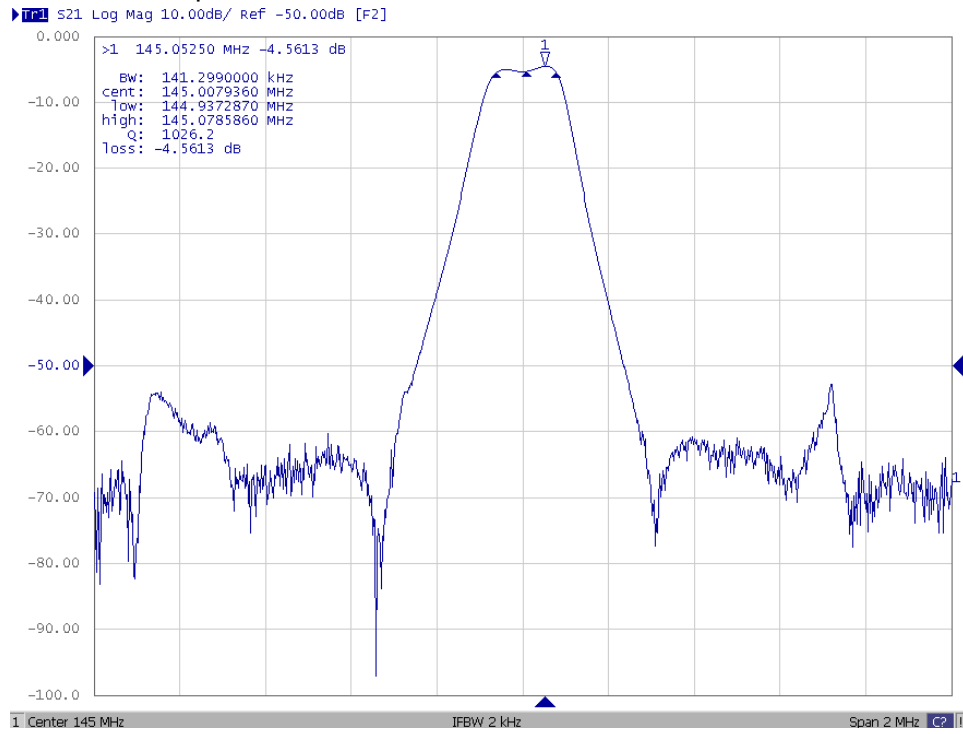
B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

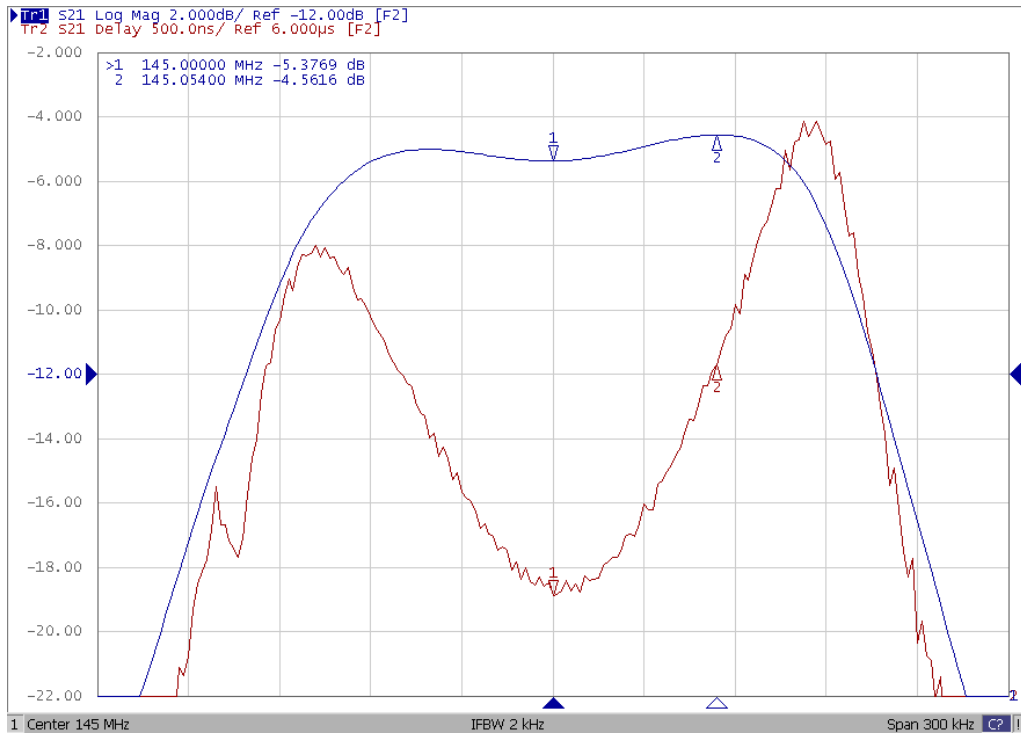
Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	144.9375	145	145.0625
Insertion Loss, IL_{max}	dB	-	4.5	9.0
1dB bandwidth	MHz	0.125	0.140	-
Group Delay variation F _c +/- 62.5kHz	ns		1060	2500
Attenuation:(Reference level from Min IL)				
100MHz ~ F _c -1MHz	dB	40	50	-
F _c +1MHz ~ F _c +1.5MHz	dB	35	40	-
F _c +1.5MHz ~ 160MHz	dB	40	50	-
Temperature Coefficient	ppm/°C ²	-	-0.032	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. FREQUENCY CHARACTERISTICS:

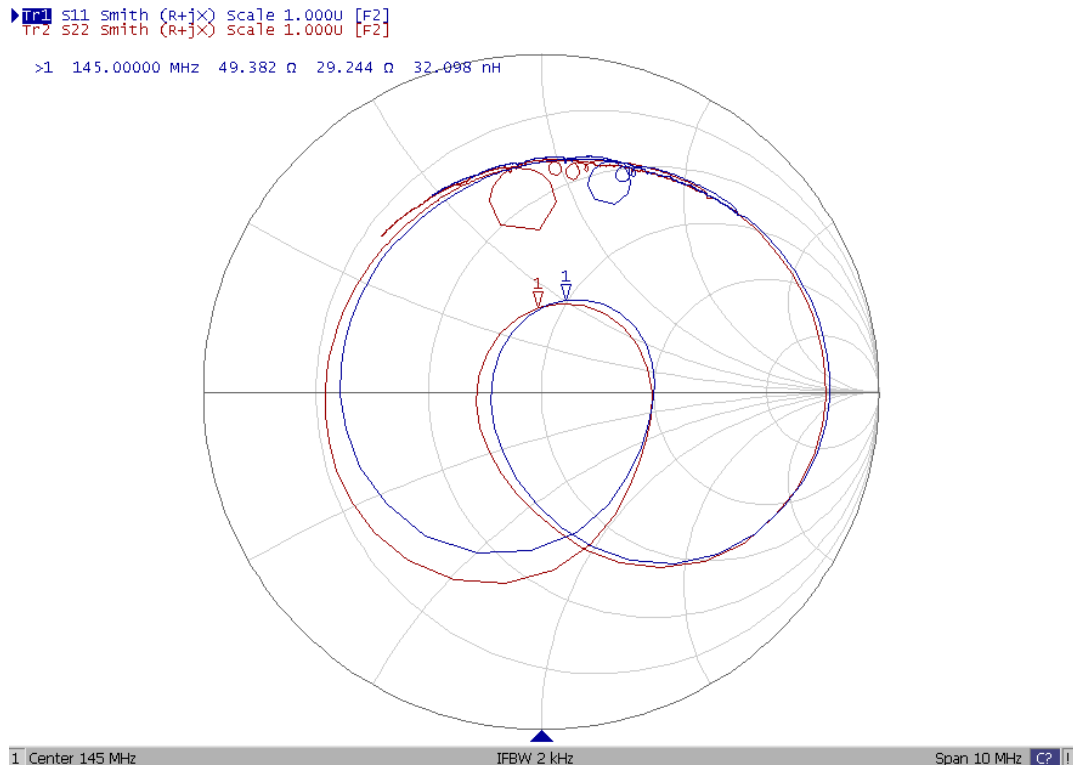
(1) Narrow Band Response:



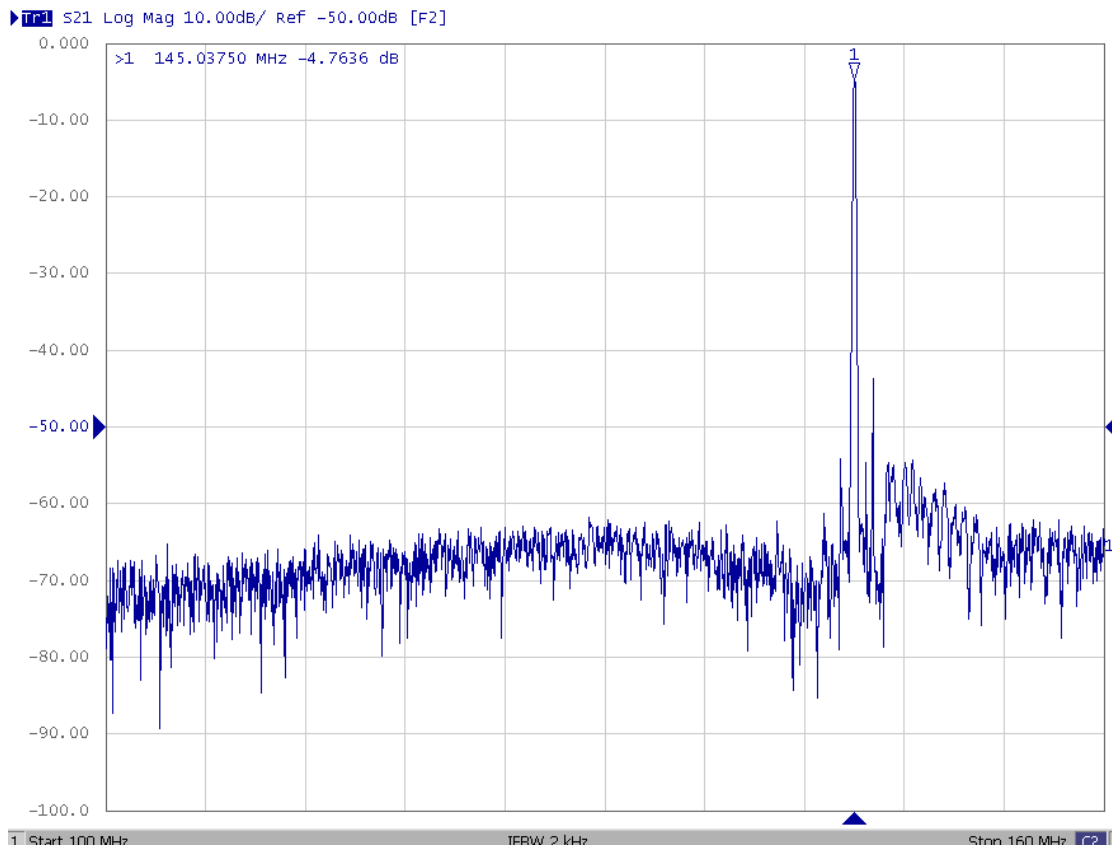
(2) Pass Band and Group Delay Response:



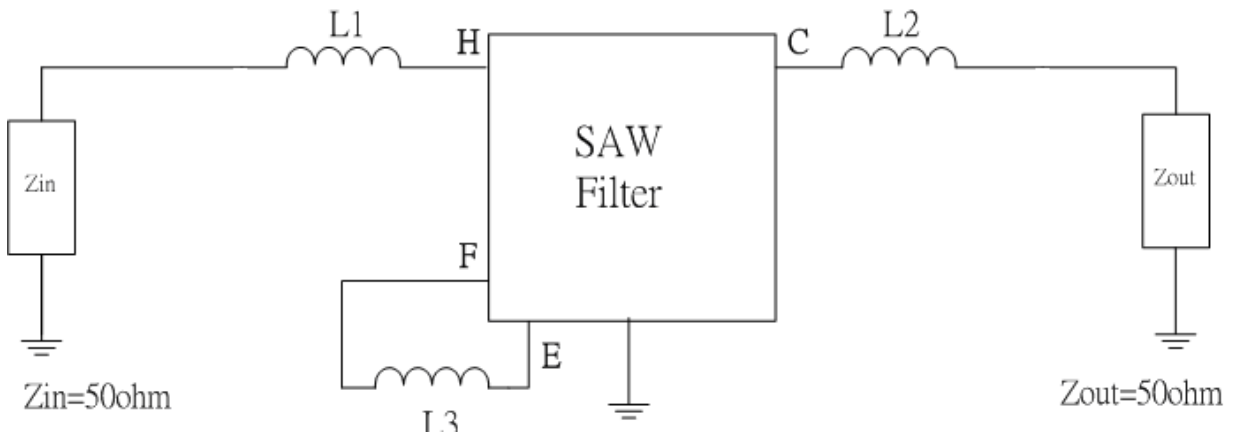
(3) Impedance:



(4) Wide band Response:

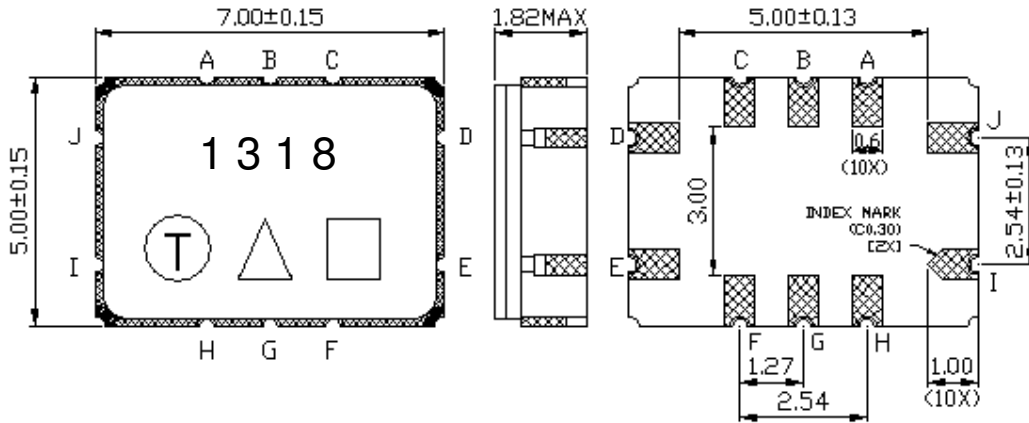


D. MATCHING CIRCUIT:



$L1=270\text{nH} + 27\text{nH}$ $L2=270\text{nH} + 27\text{nH}$ $L3=470\text{nH}$

E. OUTLINE DRAWING:



- Pin H –RF input
- Pin C –RF output
- Pin E, F – External Coil
- Pin A, B, C, D, G, I, J - Ground
- : Week Code
- △: Product / Year Code
- Unit: mm

Product / Year Code

Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	B	b	<u>B</u>	<u>b</u>

