



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: 44MHz IF SAW Filter (BW=4.6 MHz)

TST Parts No.: TB0419A

Customer Parts No.: _____

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

Checked by: Kazuma Lee *Kazuma Lee*

Approval by: Andy Yu *Andy Yu*

Date: 2018/12/10

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

FR-71S03-01



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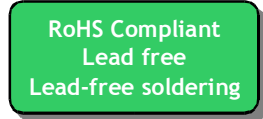
SAW Filter 44MHz (SMD 13.3×6.5 mm)

Model No.: TB0419A

Rev. No.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -30°C to +80°C
3. Storage Temperature: -40°C to +85°C
4. Moisture Sensitivity Level: Level 1 (MSL 1)

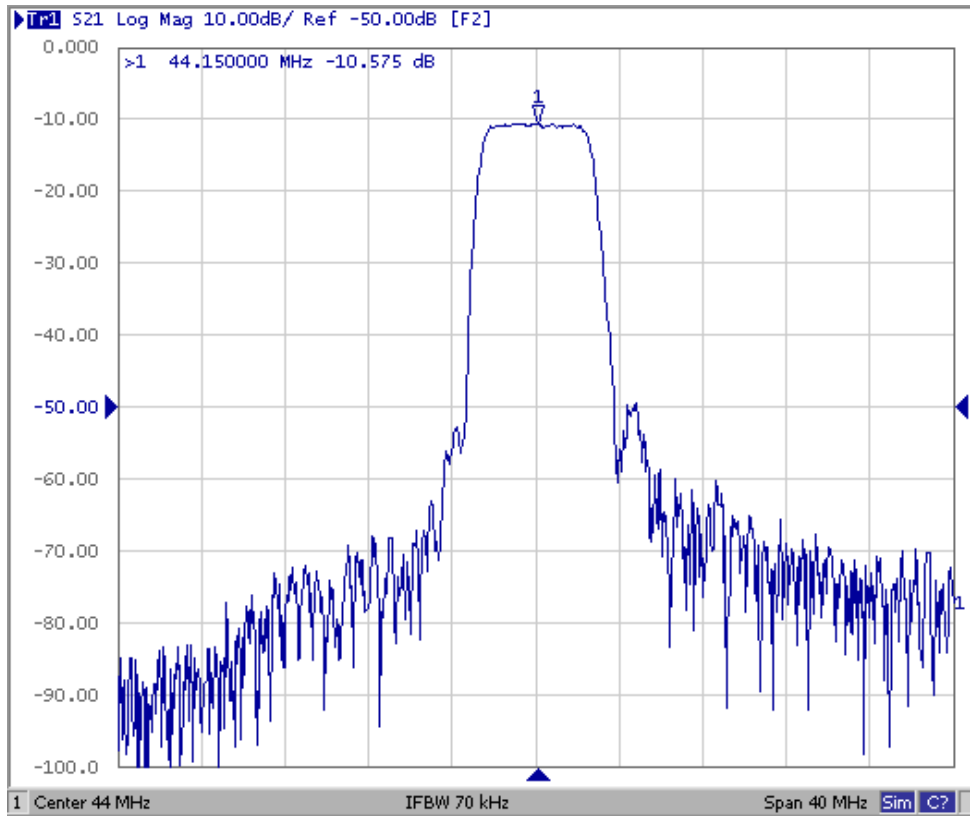


B. ELECTRICAL CHARACTERISTICS:

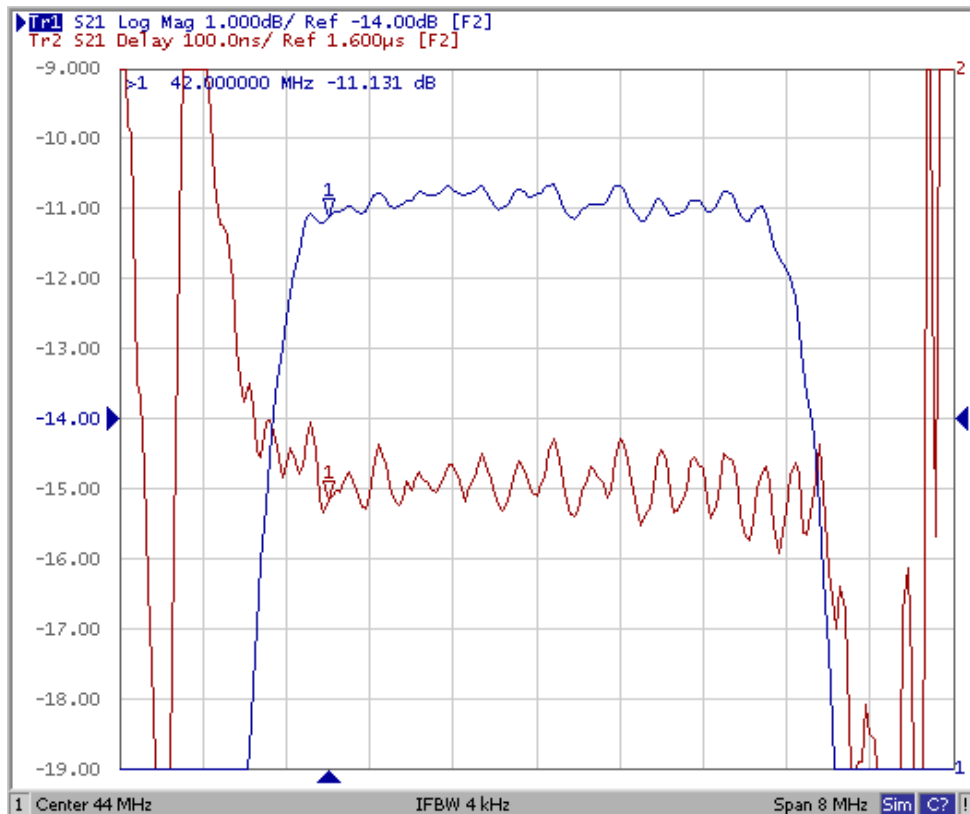
Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	44	-
Insertion Loss, IL	dB	-	11.5	16
1 dB Bandwidth	MHz	-	4.7	-
3 dB Bandwidth	MHz	4.6	5.1	
Pass band Ripple Fc±2.0MHz	dB	-	0.6	1.0
Stopband Rejection (ref: Max IL)				
Relative Attenuation Fc±2.88MHz	dB	-	8	-
Relative Attenuation Fc±5.0MHz	dB	35	42	-
Relative Attenuation 25MHz to 38MHz	dB	40	53	-
Relative Attenuation 50MHz to 61.5MHz	dB	40	48	-
Temp Coefficient	ppm/C	-	-94	-

C. FREQUENCY CHARACTERISTICS:

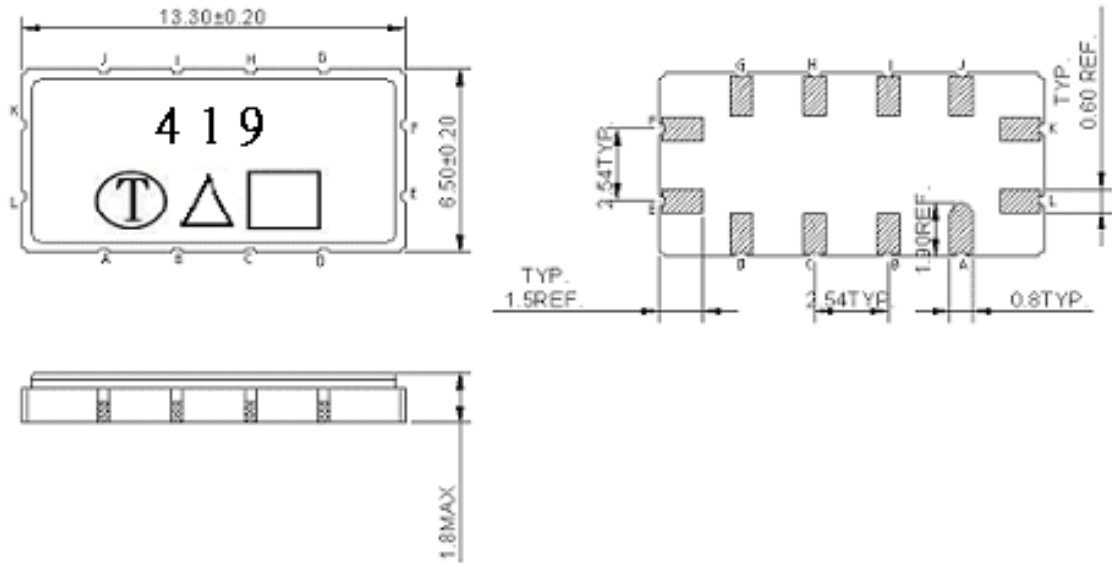
(1) Frequency Response



(2) Passband response and Group Delay Variation:



D. OUTLINE DRAWING:



Pin K=L: RF input

Pin E=F: RF output

Pin A, B, C, D, G, H, I, J: To be Ground

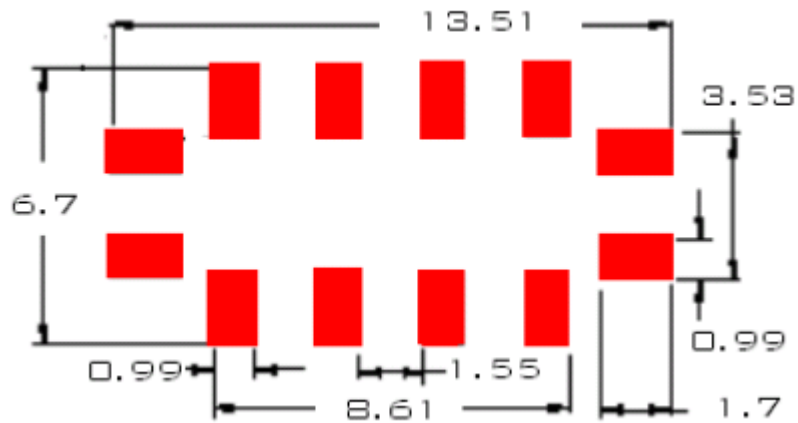
□ : Week Code (Follow the table from planner each year)

Unit : mm

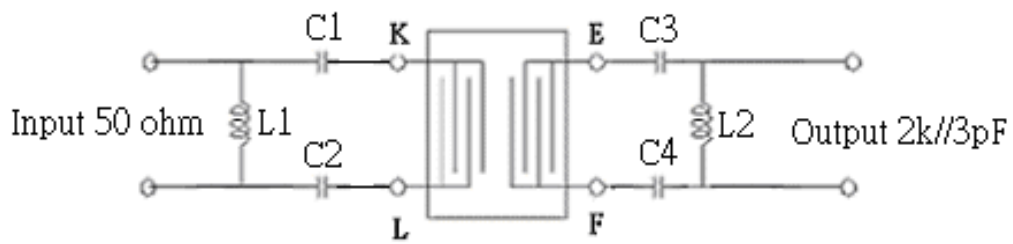
△ : Product / Year Code

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

E. PCB FOOTPRINT:



F. MATCHING CIRCUIT:



$C1=C2=50\text{pF}$, $L1=300\text{nH}$, $C3=C4=27\text{pF}$, $L2=1000\text{nH}$

H. RECOMMENDED REFLOW PROFILE:

