



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

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Product Specifications Approval Sheet

Product Description: SAW Filter 420 MHz SMD 5.0X7.0 mm (BW=20MHz)

TST Part No.: TA0409B

Customer Part No.: _____

Customer signature required

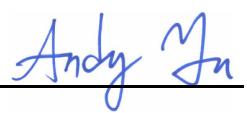
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 11. 17 . 2020

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 420 MHz

MODEL NO.: TA0409B

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
 2. DC voltage: 5 V
 3. Operating Temperature: -40°C to +85°C
 4. Storage Temperature: -40°C to +85°C
- Moisture Sensitive Level (MSL): Level 1

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

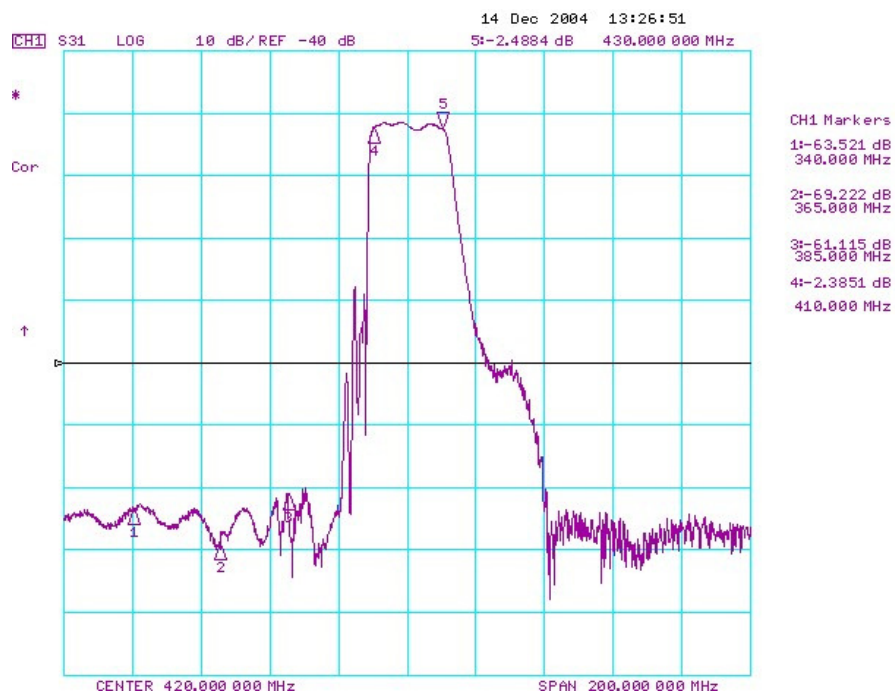
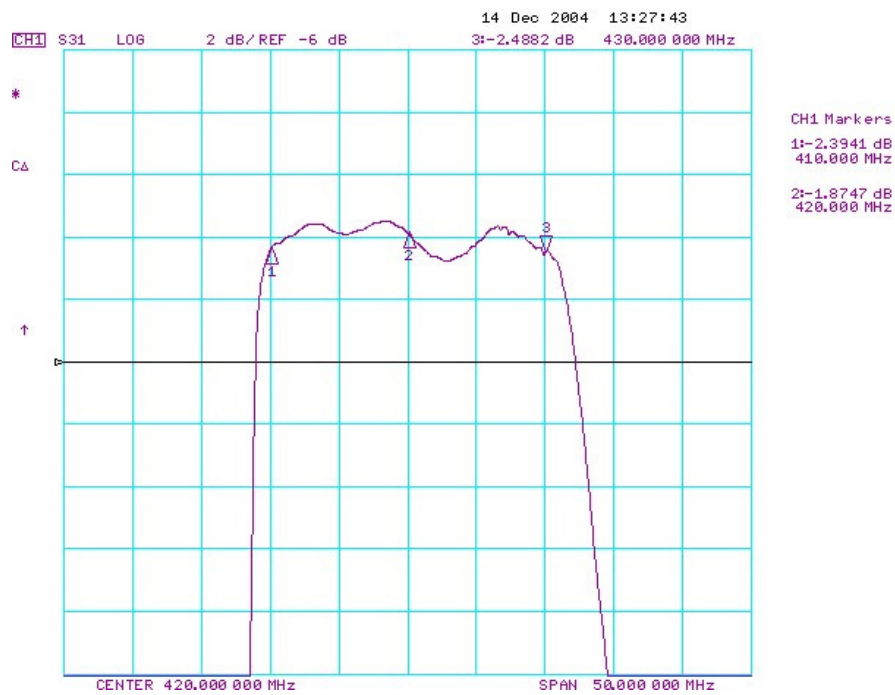
B. ELECTRICAL CHARACTERISTICS:

Reference temperature: 25°C

Item	Unit	Min.	Type.	Max.
Center frequency F _c	MHz	-	420	-
Minimum Insertion Loss IL _{min} (reference level)	dB	-	1.6	3.5
Ripple F _c ±10MHz	dB		1.3	3
Relative Attenuation:(Reference level from IL _{min})				
320 to 340 MHz	dB	45	60	-
365 to 385 MHz	dB	40	58	-
Temperature coefficient of frequency	ppm/K	-	-37	-
Source impedance Z _s	Ω	-	50	-
Load impedance Z _L	Ω	-	50	-

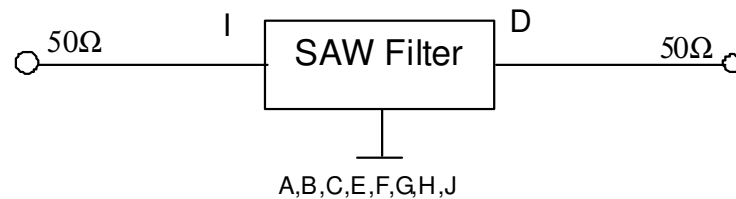
Note: IL_{min} is the minimum of the pass band attenuation. The center frequency F_c is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL_{min}.

C. Frequency Characteristics :

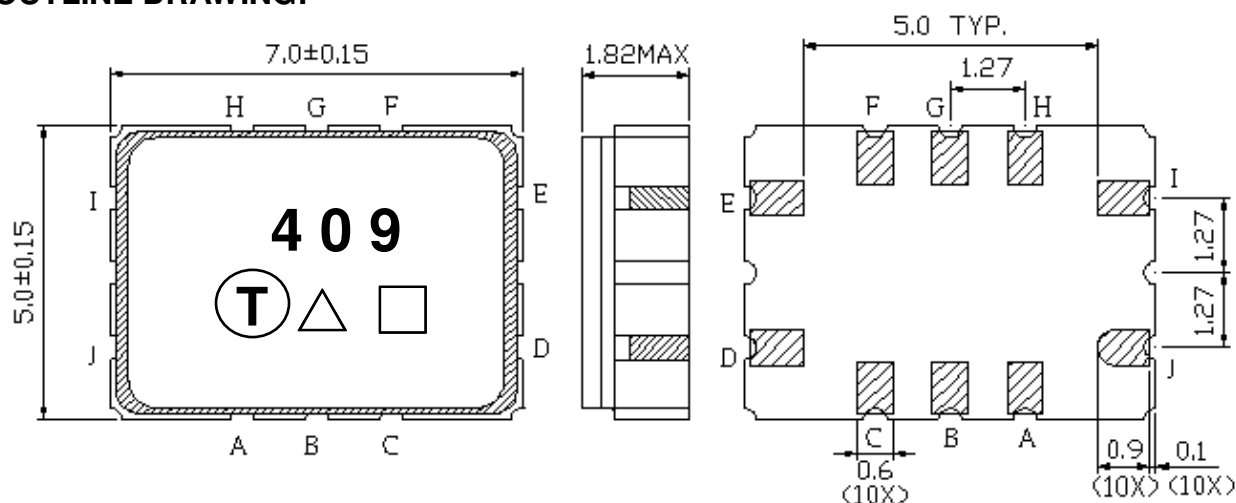


D. MEASUREMENT CIRCUIT:

HP Network analyzer



E.OUTLINE DRAWING:



Pin I : Input

Pin D : Onput

Pin A, B,C, E, F, G, H, J : Ground

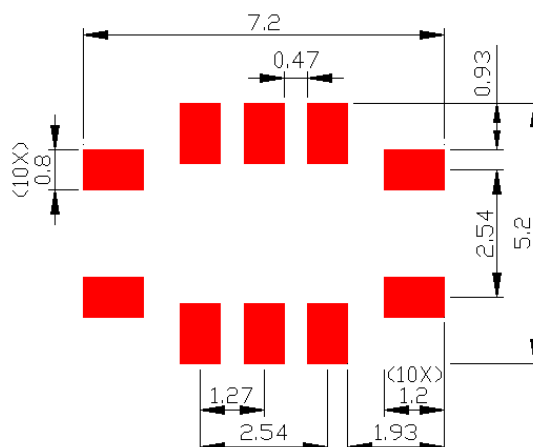
△: Year Code

□: Date Code (Follow the table provided by planner each year.)

Unit : mm

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

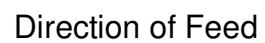
F.PCB FOOTPRINT:



TAI-SAW TECHNOLOGY CO., LTD.

TST DCC
Release document

1. REEL DIMENSION
(Please refer to FR-75D10 for packing quantity)



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C+0/-5°C peak (20~40sec).
4. Time: 2 times.

