



# TAI-SAW TECHNOLOGY CO., LTD.

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

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## Product Specifications Approval Sheet

Product Description: SAW Filter 420MHz SMD 7.0×5.0mm

TST Parts No.:TA0409A

Customer Parts No.: \_\_\_\_\_

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

Checked by: \_\_\_\_\_ Anne Chen *Anne Chen*

Approval by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 2021/1/26

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.: TA0409A

REV. NO.:2.0

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: -25°C to +75°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device

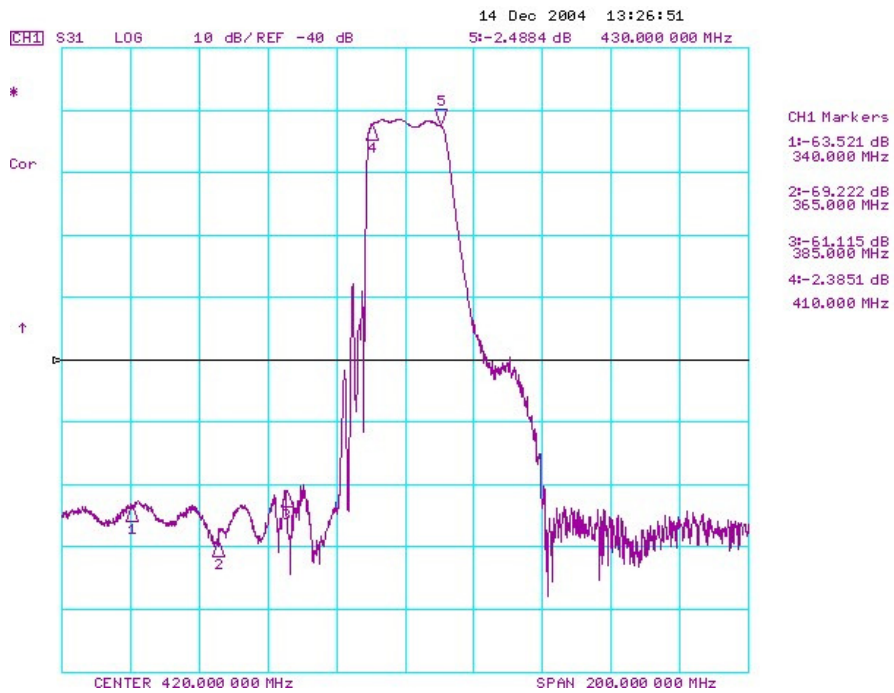
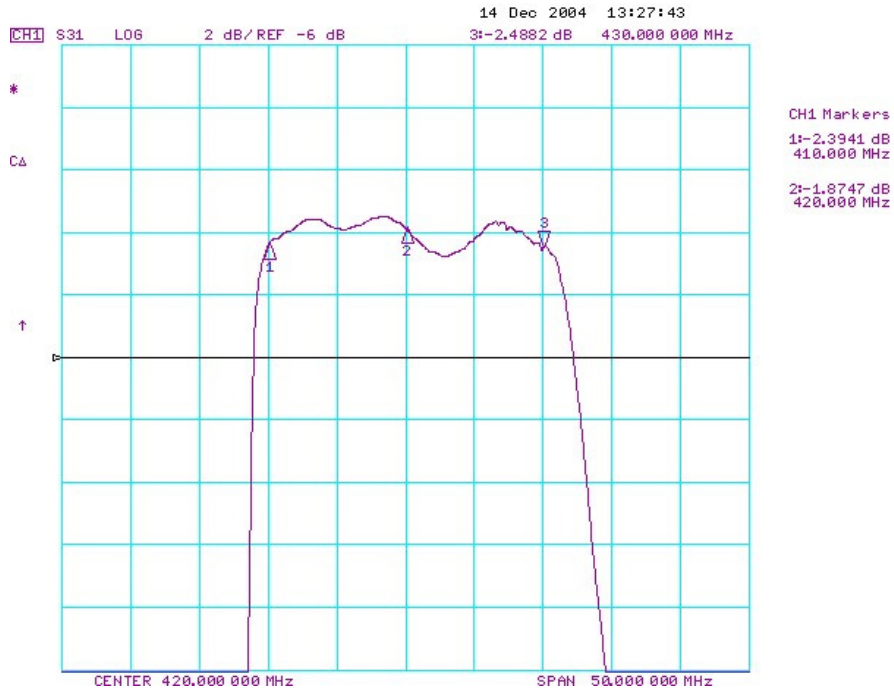
### B. ELECTRICAL CHARACTERISTICS:

Reference temperature: 25°C

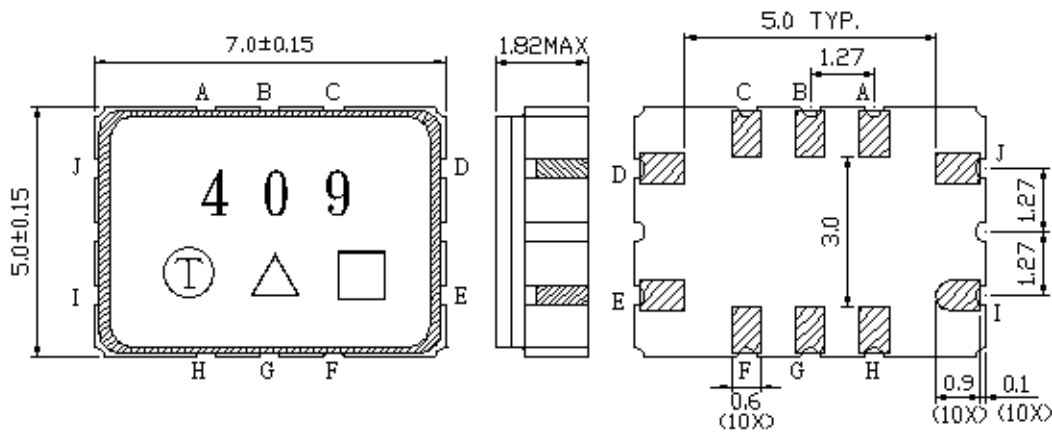
Item	Unit	Min.	Type.	Max.
Center frequency F <sub>c</sub>	MHz	-	420	-
Minimum Insertion Loss IL <sub>min</sub> (reference level)	dB	-	1.6	3.5
Ripple F <sub>c</sub> ±10MHz	dB		1.3	2.5
Relative Attenuation:(Reference level from IL <sub>min</sub> )				
320 to 340 MHz	dB	45	60	-
365 to 385 MHz	dB	40	58	-
Temperature coefficient of frequency	ppm/K	-	-37	-
Source impedance Z <sub>s</sub>	Ω	-	50	-
Load impedance Z <sub>L</sub>	Ω	-	50	-

Note: IL<sub>min</sub> is the minimum of the pass band attenuation. The center frequency F<sub>c</sub> is the mean value of the upper and lower frequencies at the 2.5dB filter attenuation level relative to the IL<sub>min</sub>.

### C. Frequency Characteristics :



## D.OUTLINE DRAWING:



PinI : Input

PinD : Output

PinA、B、C、E、F、G、H、J : Ground

△ : Year code

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

Unit : mm

Product / Year Code- 4year cycle

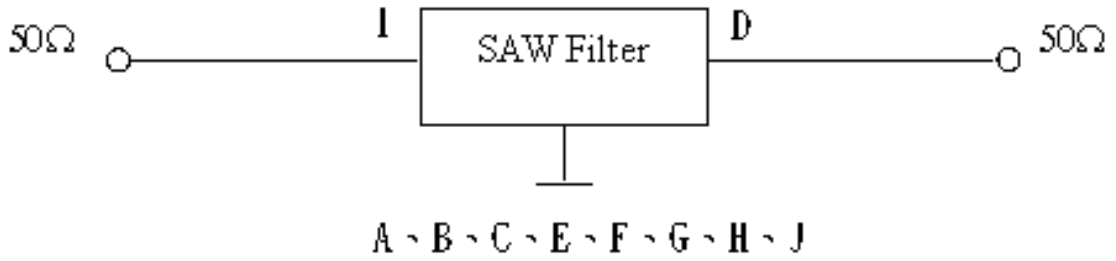
Year	2021 2025	2022 2026	2023 2027	2024 2028
Product Code	A	a	<u>A</u>	<u>a</u>

Week Code Table

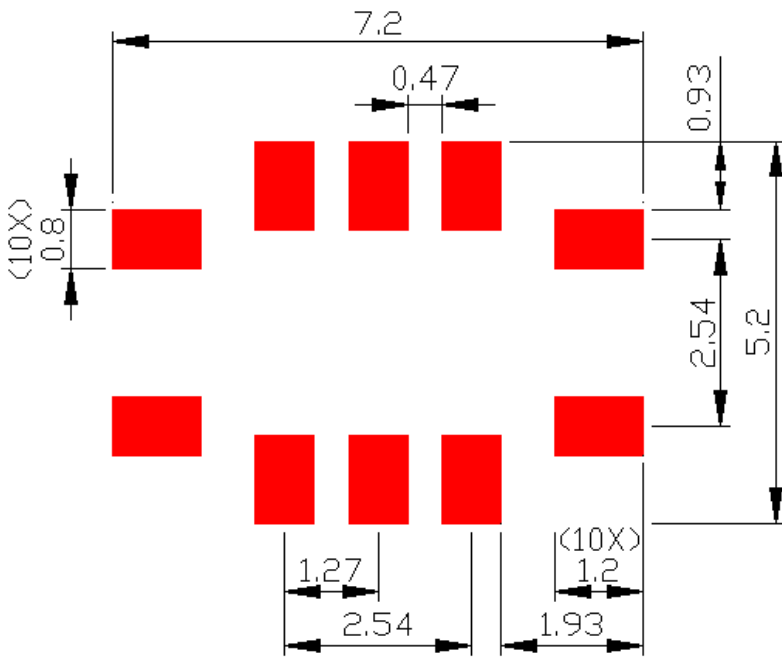
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

### E. MEASUREMENT CIRCUIT:

HP Network analyzer

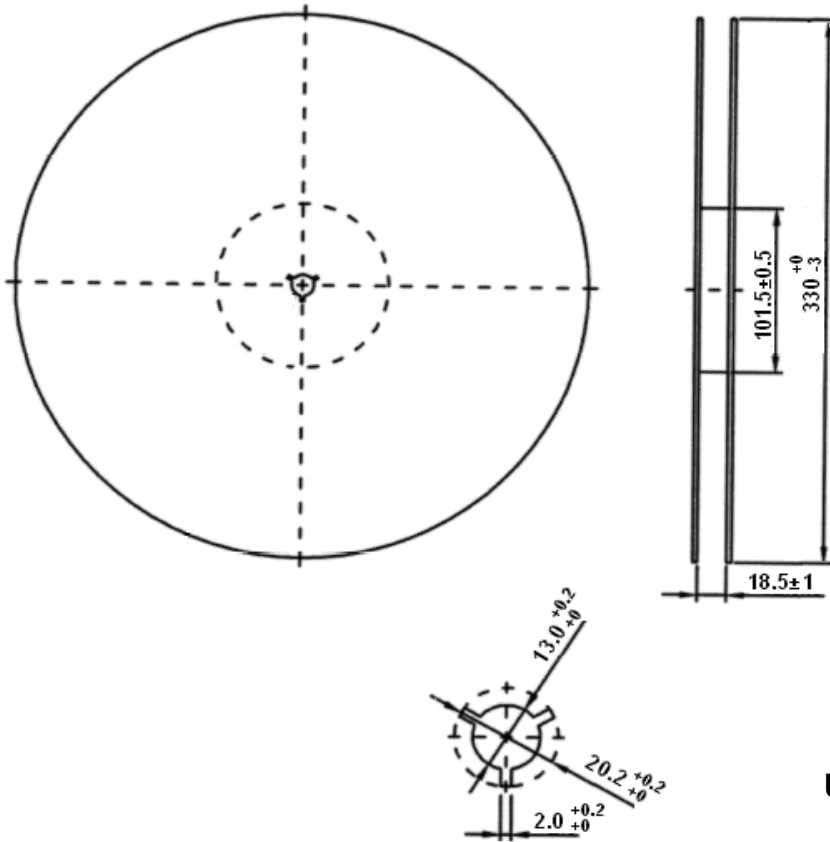


### F. PCB FOOTPRINT:



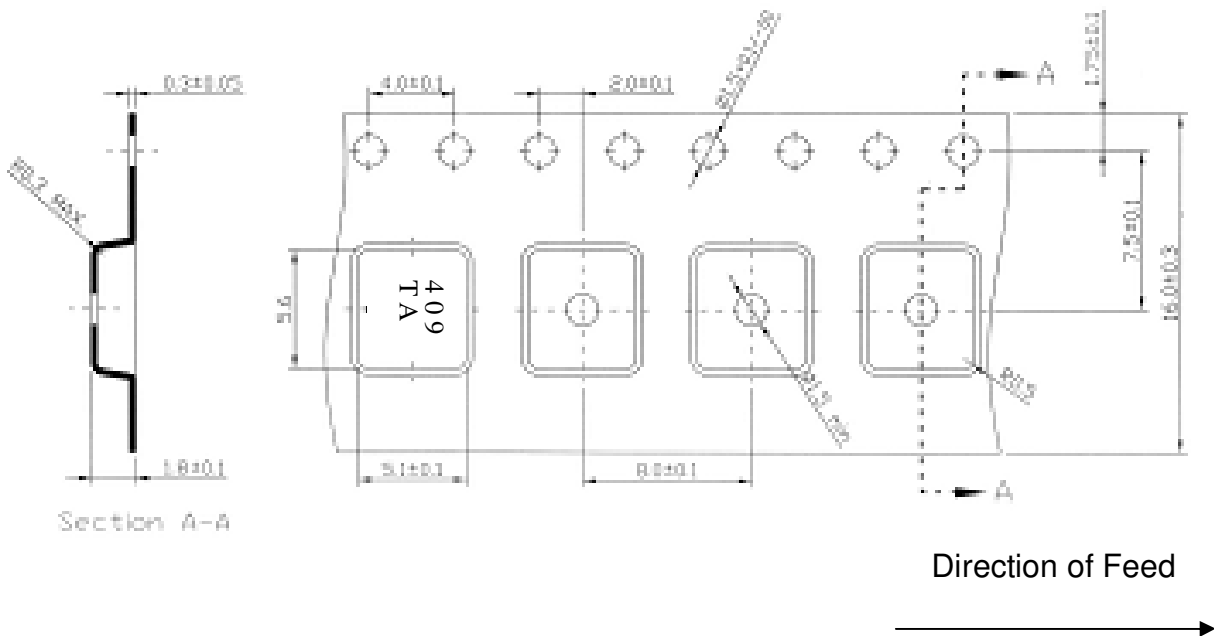
**G. PACKING:**

**1. REEL DIMENSION**



Unit: mm

**2. TAPE DIMENSION**



## 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.

