



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: 431.5624MHz 1.0MHz BW SMD 3.8 x 3.8 mm SAW RF Filter

TST Parts No.: TA2409A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 08 / 02 / 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 431.5624MHz

MODEL NO.:TA2409A

REV. NO.1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

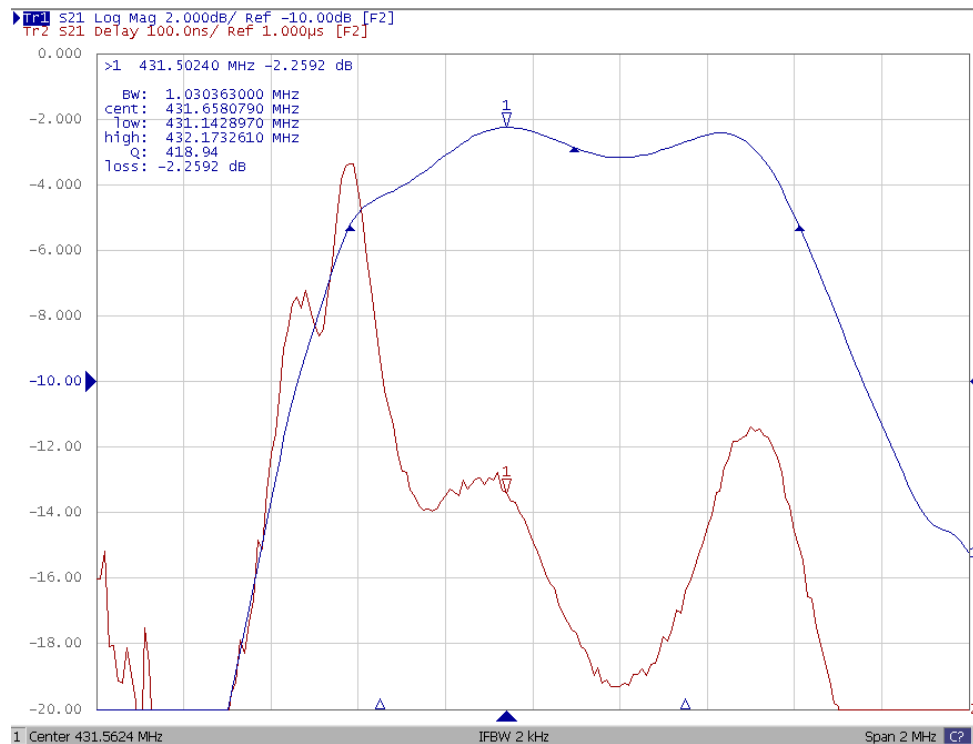
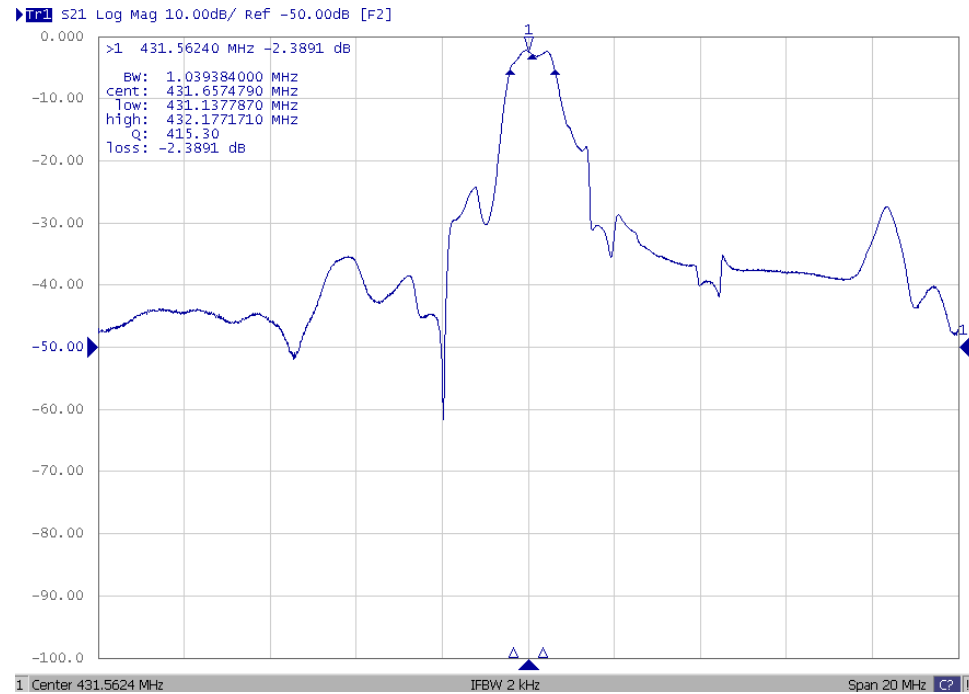
B. ELECTRICAL CHARACTERISTICS:

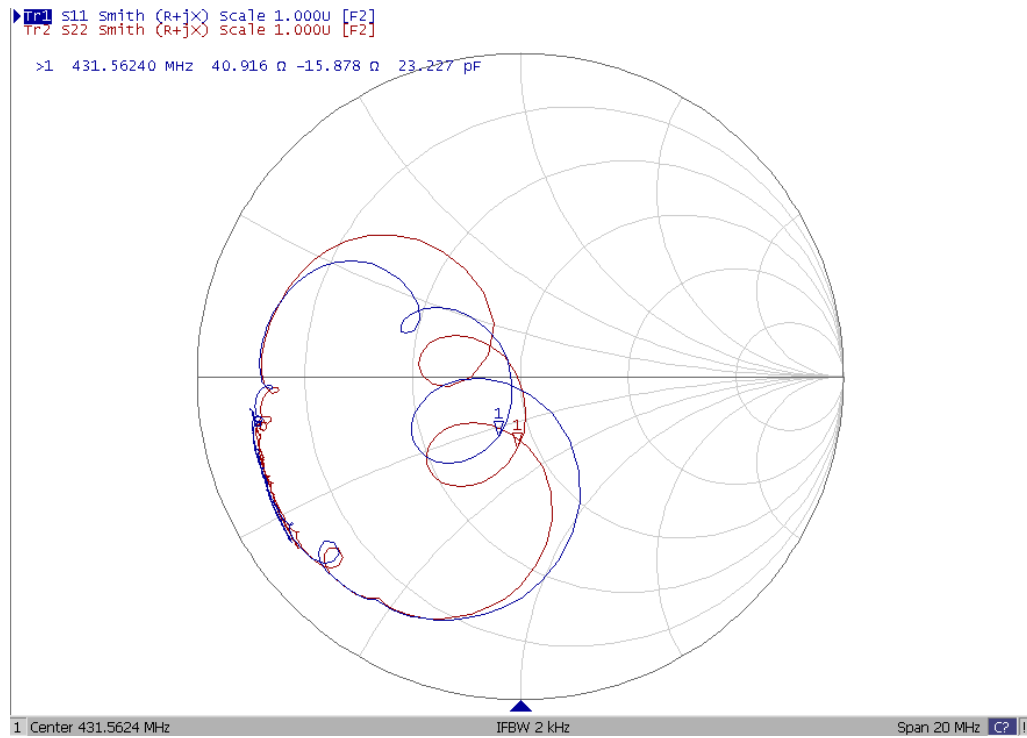
Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency F_c	MHz	-	431.5624	-
3dB BW	MHz	-	1.0	-
Minimum insertion loss IL(min) Incl. loss of matching elements *1)	dB	-	2.2	4.0
Passband (relative to IL_{min}) *1) 431.2124 MHz ~ 431.9124 MHz	dB	-	1.5	3.0
Group Delay Variation 431.2124 MHz ~ 431.9124 MHz	ns	-	500	-
Attenuation (relative to IL_{min}) *1) @430.775 MHz	dB	5	22	-
@432.35 MHz	dB	5	8	-
Input Z _{in} = R _{in} C _{in}	Ω pF			
Output Z _{out} = R _{out} C _{out}	Ω pF			

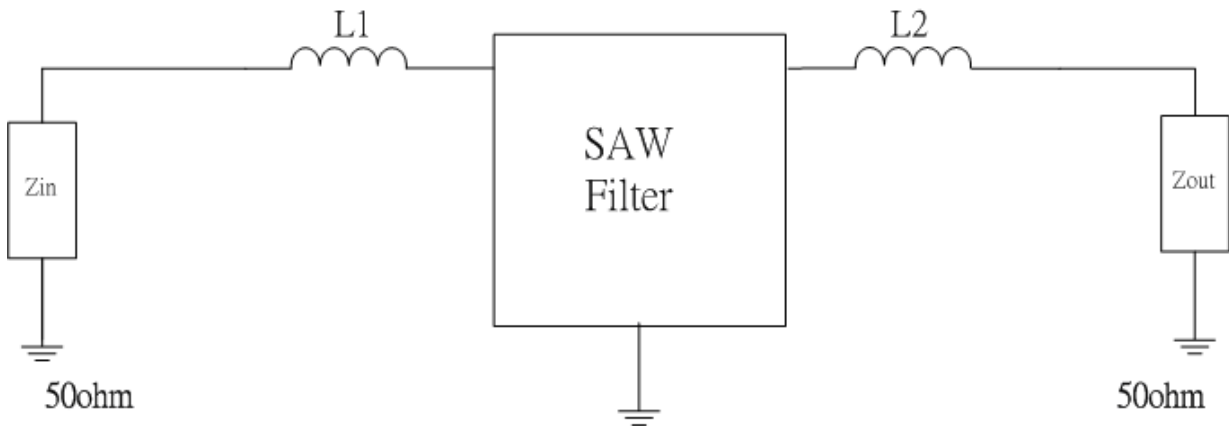
*1) : The matching circuit is real by actual passive components.
0805 Coilcraft CS series chip conductor is used for inductor.
0402 muRata GRM series is used for capacitor.

C. FREQUENCY CHARACTERISTICS:



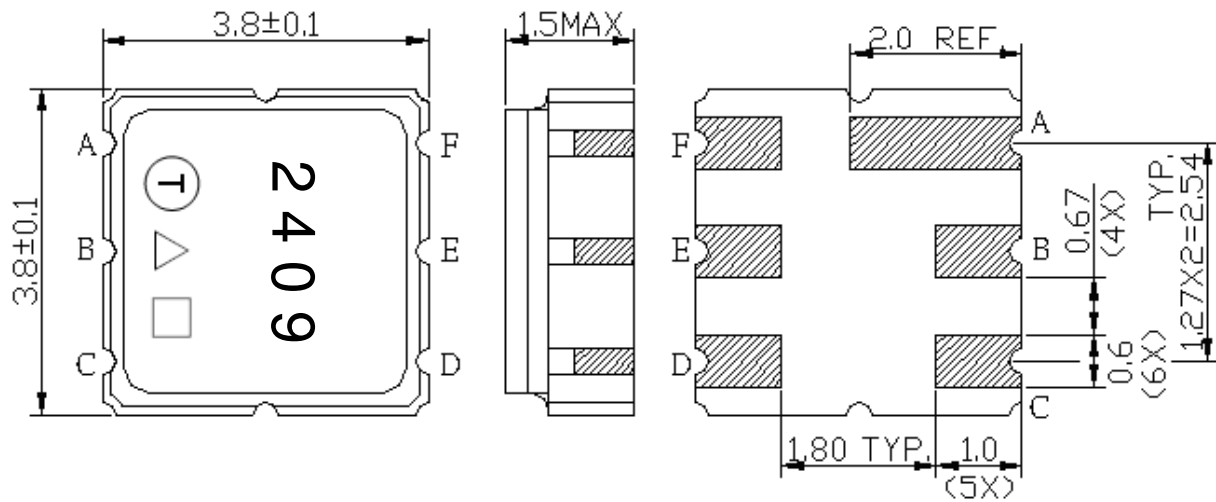


D. MEASUREMENT CIRCUIT:



$$L1=68\text{nH}+5.6\text{nH} \quad L2=68\text{nH}+8\text{nH}$$

E.OUTLINE DRAWING:



#B: Input

#E: Output

Others: Ground

□: Week Code

△: Product / Year Code

Unit: mm

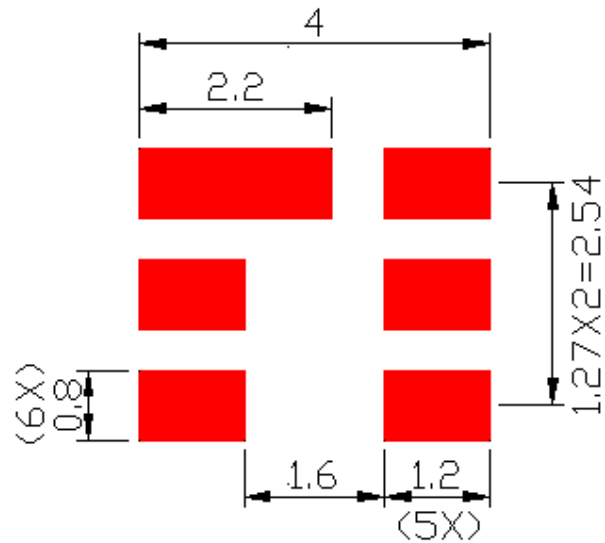
Product / Year Code

Year	2017	2018
	2019	2020
	2021	2022
Product Code	A	a

Week Code

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

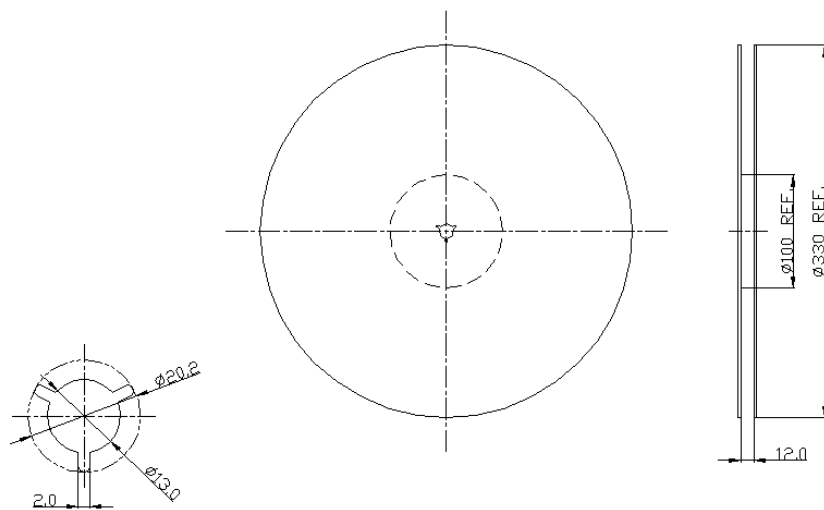
F. PCB FOOTPRINT:



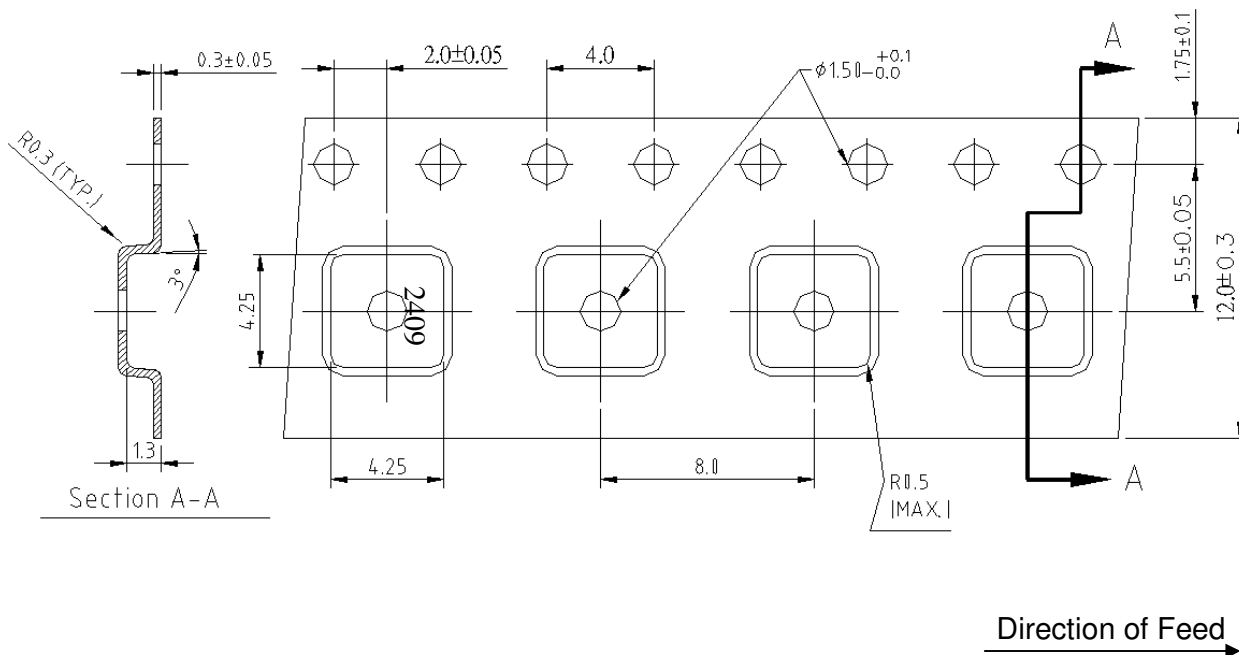
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity and FR-75M03 for MSL)



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.

