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
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: IF SAW Filter 248.45 MHz SMD 3.8X3.8 mm (BW=0.53 MHz)

TST Part No.: TB1327A

Customer Part No.:_____

Customer signature required

Company:_____

Division: _____

Approved by : _____

Date: _____

Checked by: Hayley Chou

Approved by: Andy Yu

Date: 2019/05/21

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 248.45 MHz

MODEL NO.:TB1327A REV. NO.:1.0

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

A. MAXIMUM RATING:

1. Maximum Input Power: 15 dBm
2. Maximum DC Voltage: 3 V
3. Operating Temperature: -30 ℃ to +85 ℃
4. Storage Temperature: -40 ℃ to +85 ℃
5. Moisture Sensitivity Level: Level 1 (MSL 1)

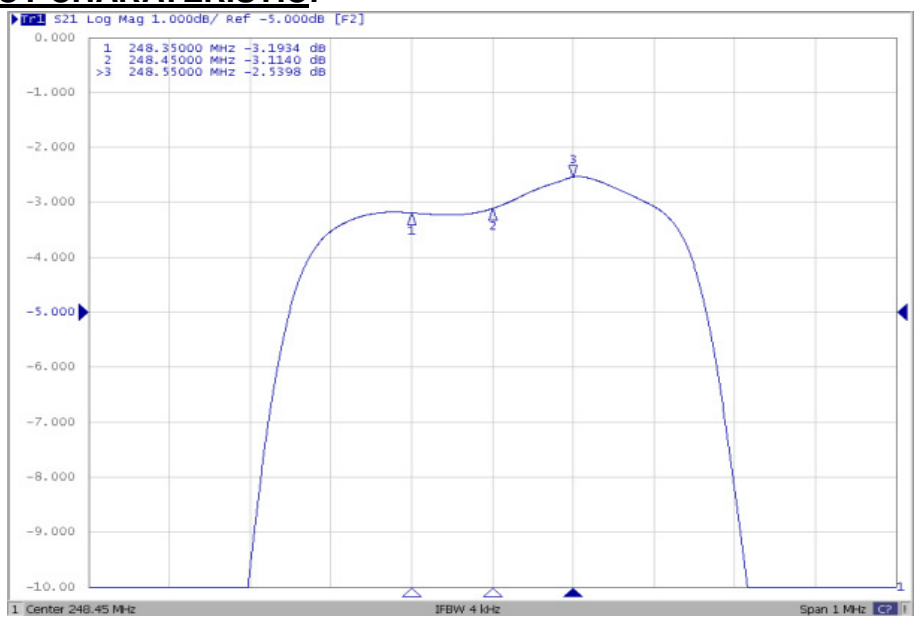
B. ELECTRICAL CHARACTERISTICS:

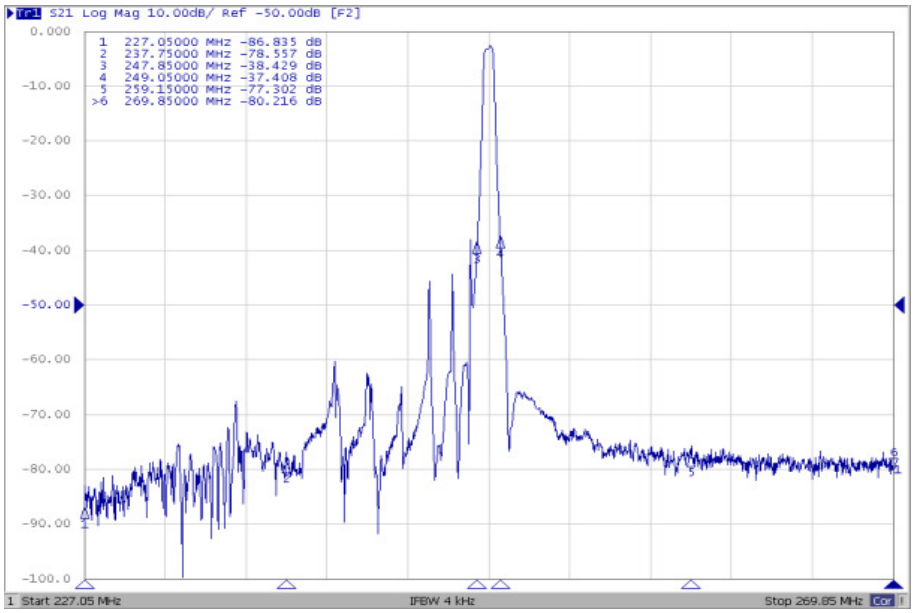
Terminating source impedance: Zs = 50 Ω

Terminating load impedance: Z_L = 50 Ω

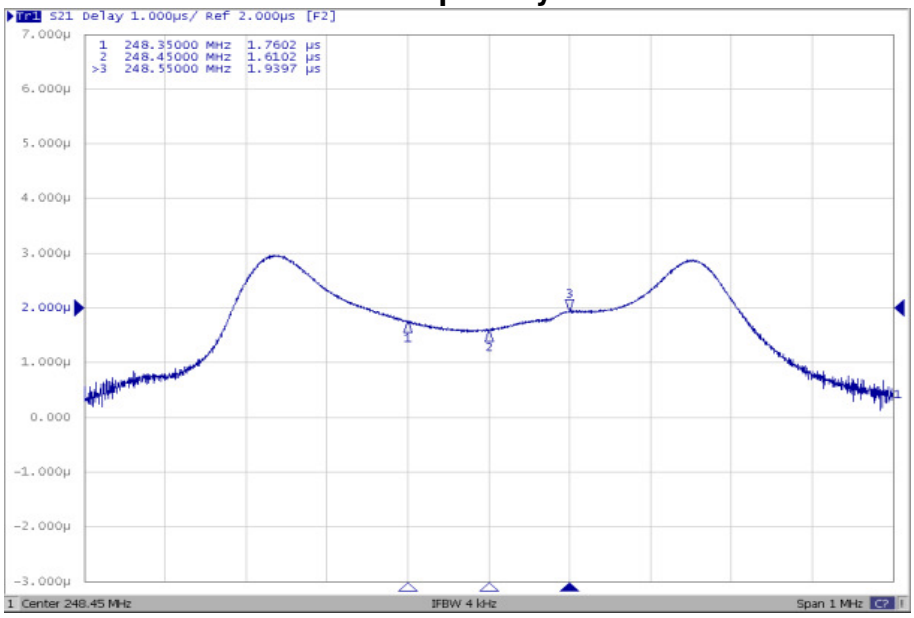
Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency	**Fc**	MHz	-	248.45	-
3 dB Bandwidth	**BW**	MHz	-	0.53	-
Insertion Loss at Fo	**IL**	dB	-	3.1	4.5
Amplitude Ripple (Fo±0.1 MHz)		dB	-	0.7	1.0
Group Delay Ripple (Fo±0.1 MHz)		μsec	-	0.4	1.0
Attenuation (Reference level from 0 dB)					
Fo±0.6 MHz		dB	25	37	-
Fo±10.7 MHz		dB	40	75	-
Fo±21.4 MHz		dB	60	78	-

C. FREQUENCY CHARATERISTIC:



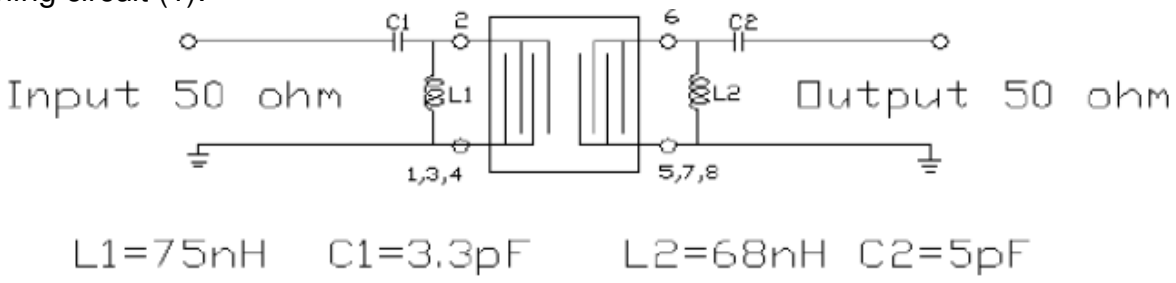


Group Delay

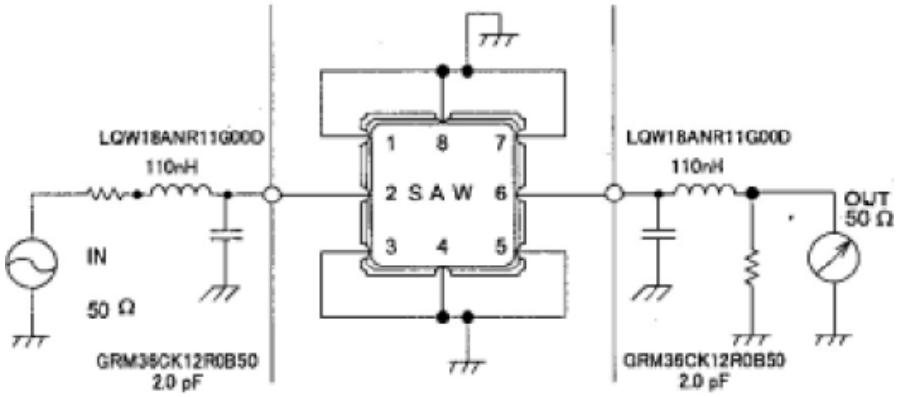


D. MEASUREMENT CIRCUIT:

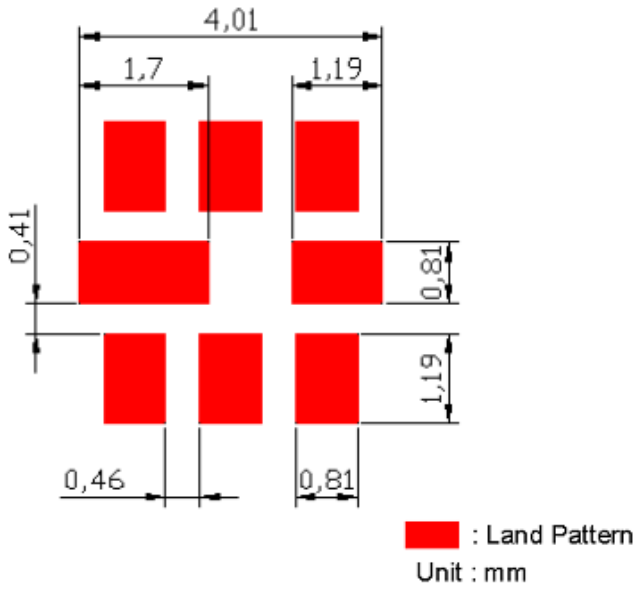
Matching circuit (1):



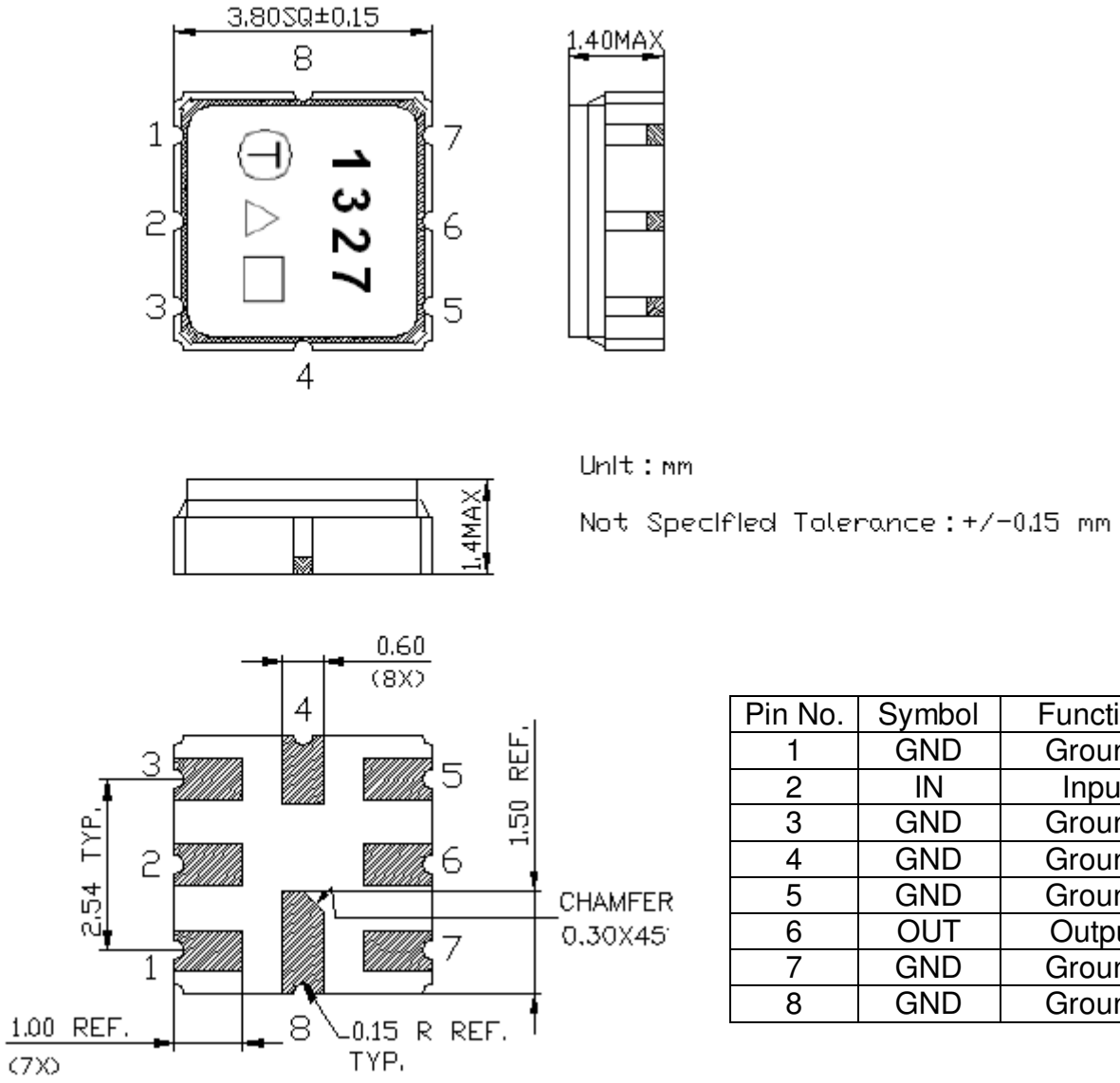
Matching circuit (2):



E. PCB Footprint:



F. OUTLINE DRAWING:



Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	OUT	Output
7	GND	Ground
8	GND	Ground

△ : **Year Code**

□ : **Date Code**

Unit: mm

△ Product Year Code

Year	2017 2019 2021 2023	2018 2020 2022 2024
Product Code	**B**	**b**

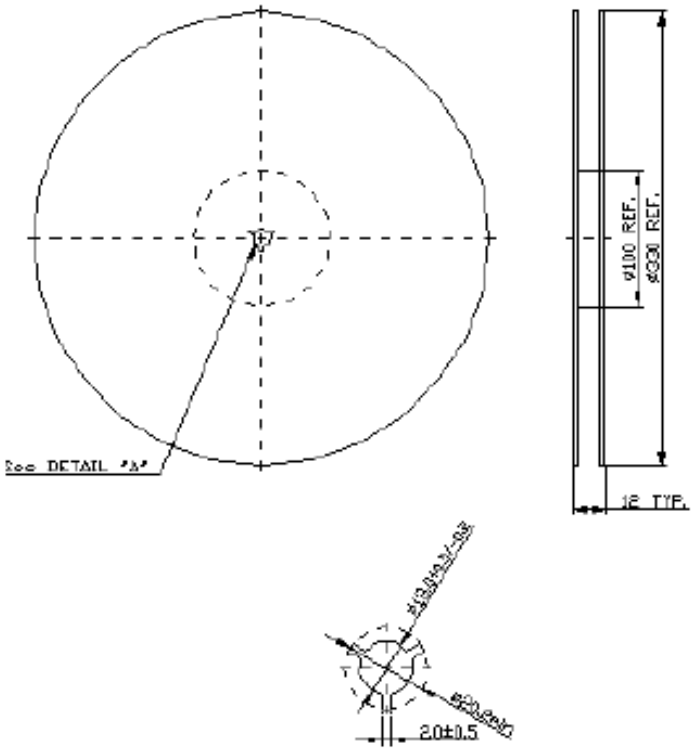
Date Code Table:

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

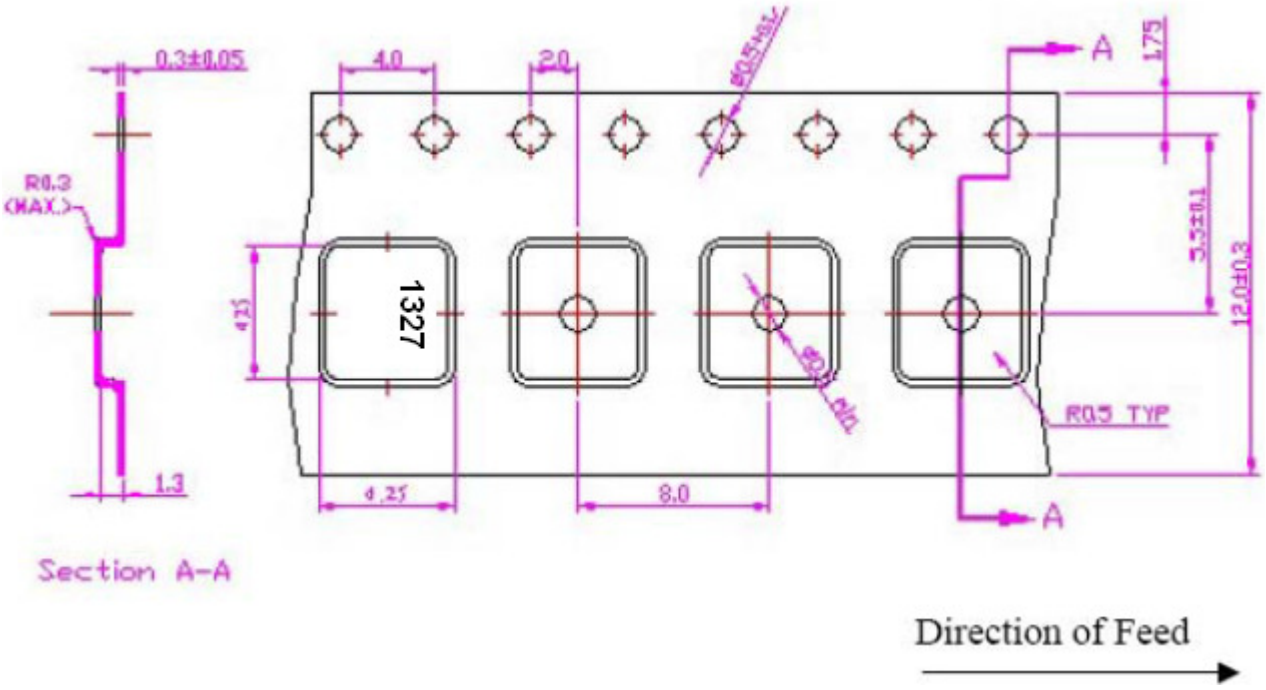
G. <u>PACKING</u>: (Ref: WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED TEMPERATURE PROFILE OF REFLOW SOLDERING:

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

