



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 154.1 MHz SMD 9.1x7.1 mm (BW=18 MHz)

TST Part No.: TB0608A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 10/14/2016

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 154.1 MHz

MODEL NO.: TB0608A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. Operating Temperature: -40°C to +85°C
3. Storage Temperature: -40°C to +85°C

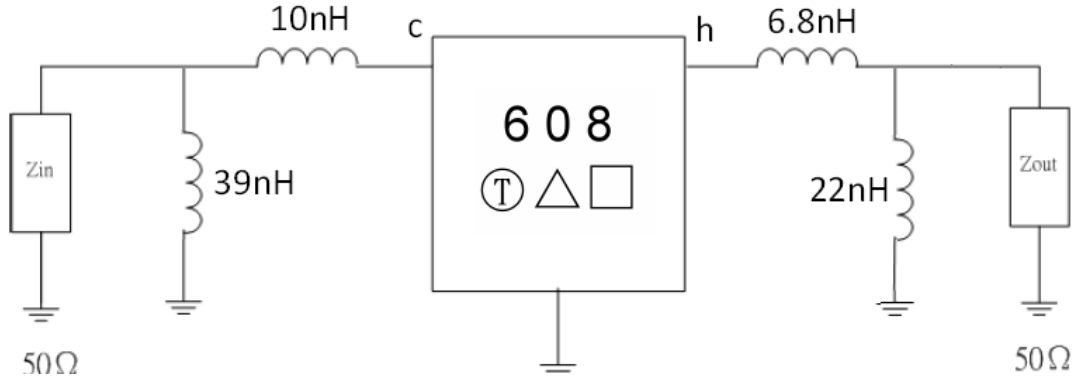
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

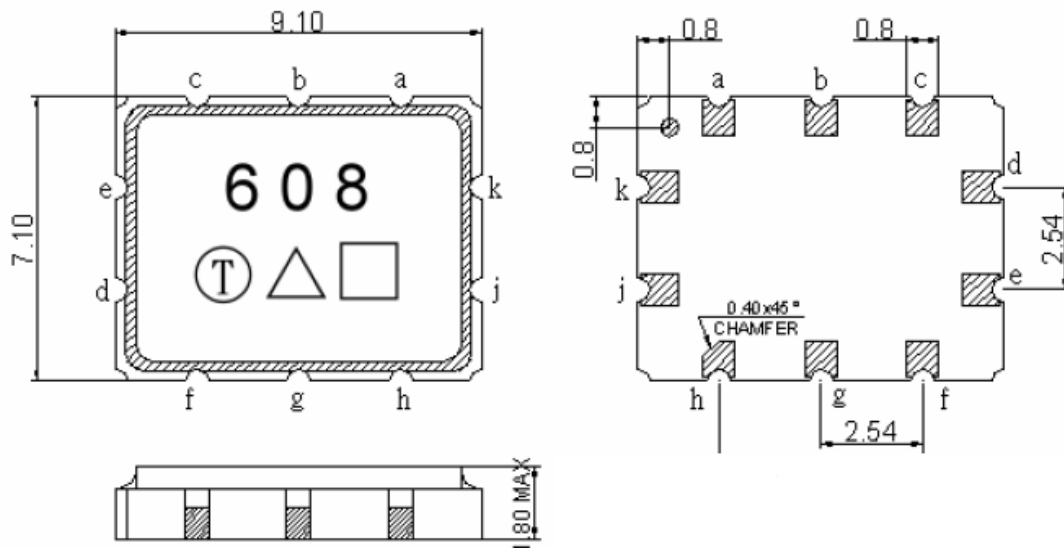
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	154.1	-
Min. Insertion Loss IL	dB	-	17	18
1 dB bandwidth	MHz	17.5	18.2	-
3dB bandwidth	MHz	-	19	20
20 dB bandwidth	MHz	-	21.3	30
40 dB bandwidth	MHz	-	22	32
Passband Ripple (145.6~162.6 MHz)	dB _{p-p}	-	1.0	1.2
Group Delay Variation (145.6~162.6 MHz)	nsec	-	35	60
Absolute Group Delay at Fc	µsec	-	1.02	-
Absolute Group Delay (mean) (145.6~162.6 MHz)	µsec	-	1.016	-
Attenuation (Reference level from Min. IL)				
10 ~ 130 MHz	dB	40	55	-
190 ~ 425 MHz	dB	35	44	-
425 ~ 500 MHz	dB	25	33	-
500 ~ 900 MHz	dB	20	27	-

C. MEASUREMENT CIRCUIT:



Note: The matching will change according to different test fixture.

D. OUTLINE DRAWING:



Pin c: RF input

Pin h: RF output

Pin a, b, d, e, f, g, j, k: To be ground

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

Unit: mm

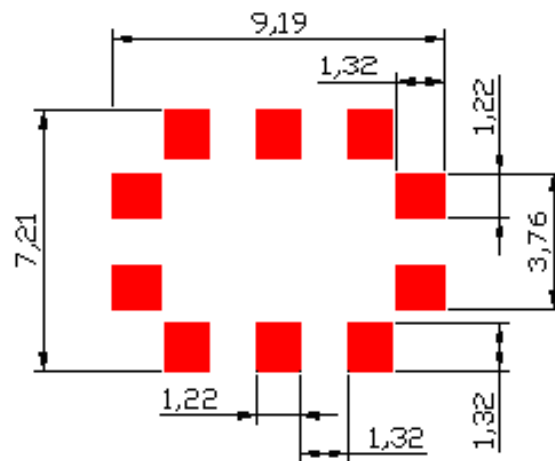
△: Product / Year Code

Year	2009	2010	2011	2012
	2013	2014	2015	2016
	2017	2018	2019	2020
Product Code	B	b	<u>B</u>	<u>b</u>

Week Code:

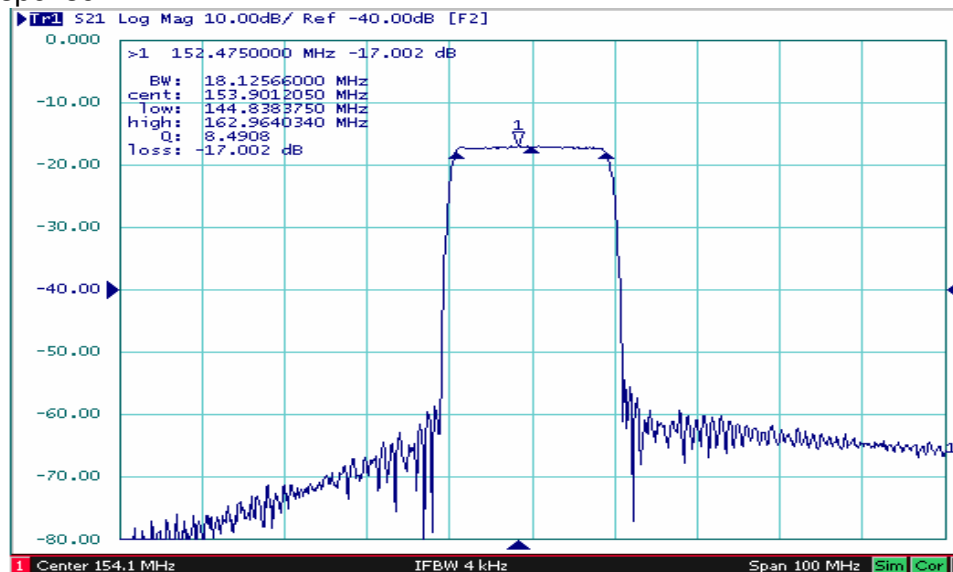
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. PCB Footprint:

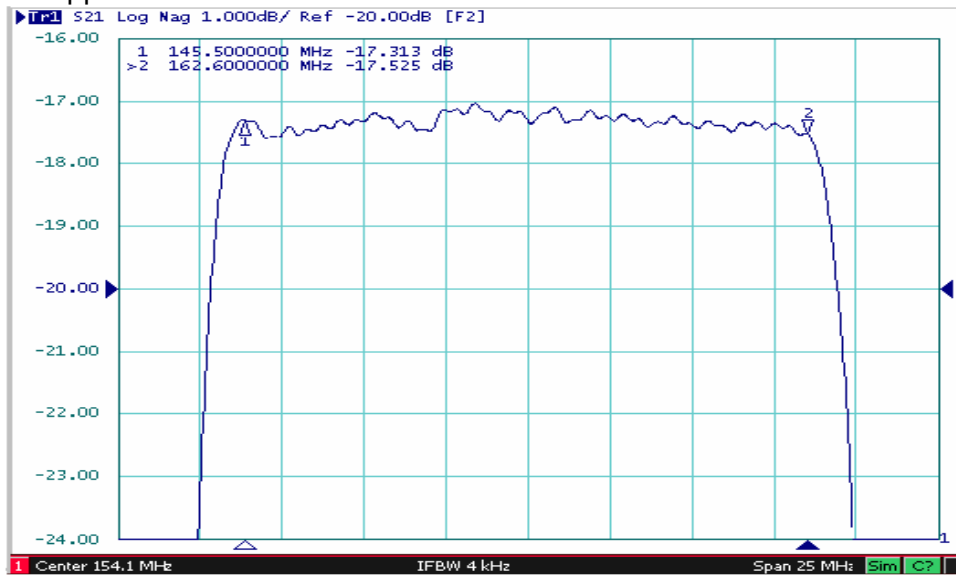


F. Frequency Characteristics:

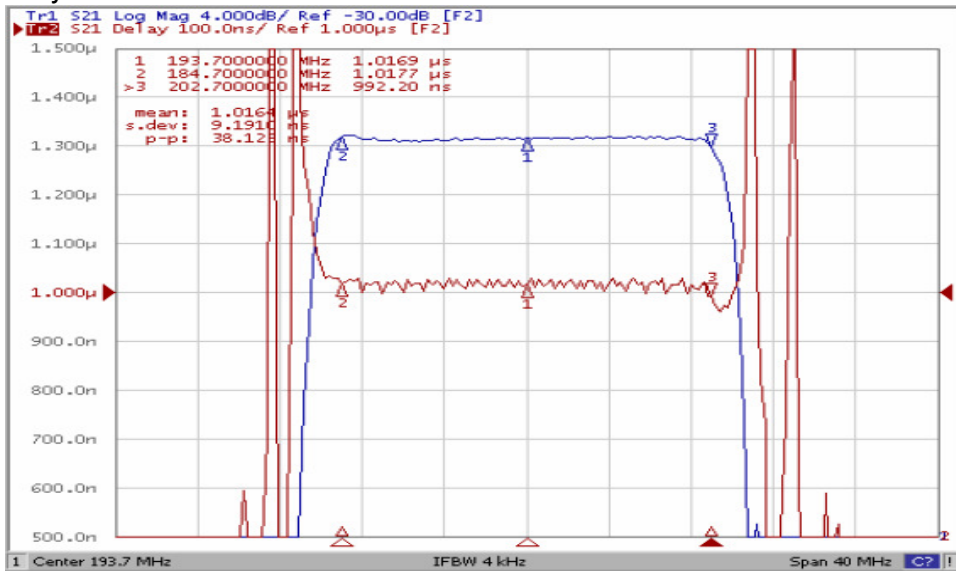
1. S21 Response



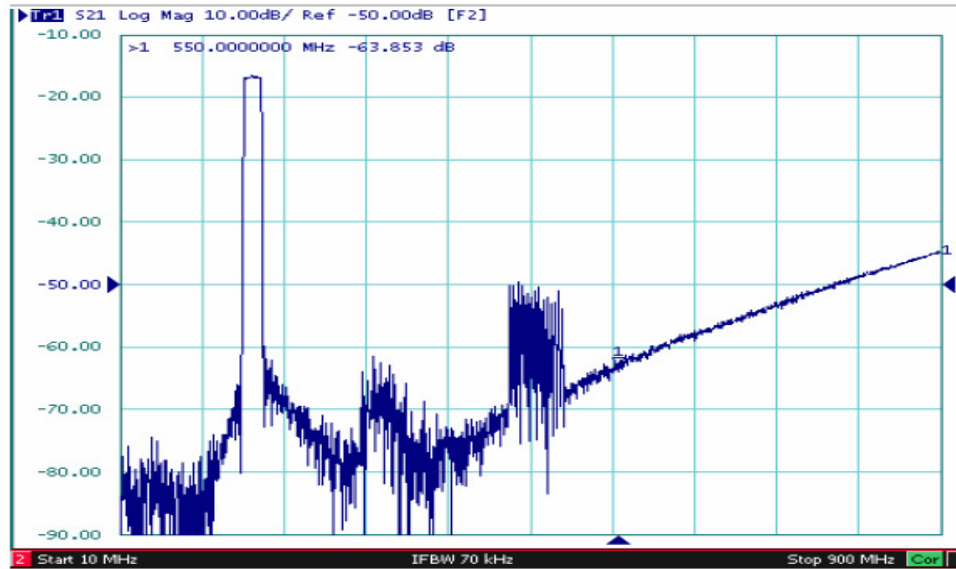
2. Passband Ripple



3. Group Delay



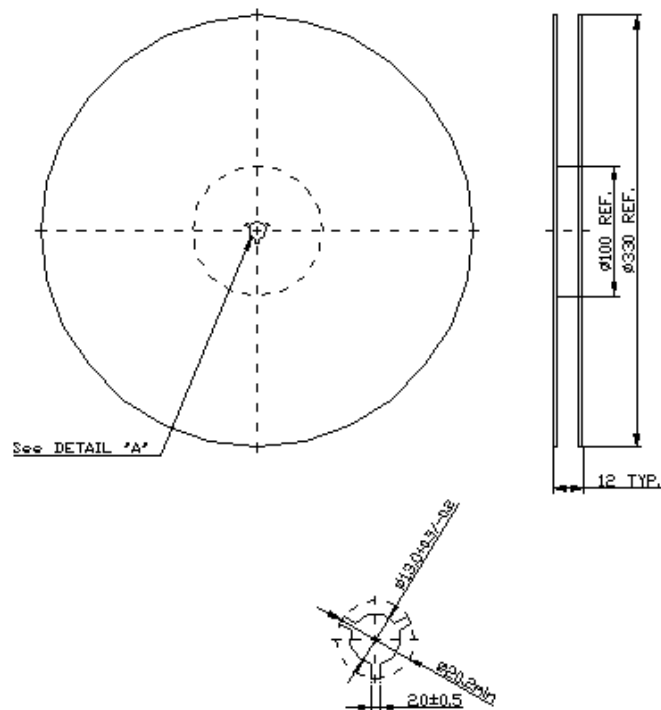
4. Wide band response



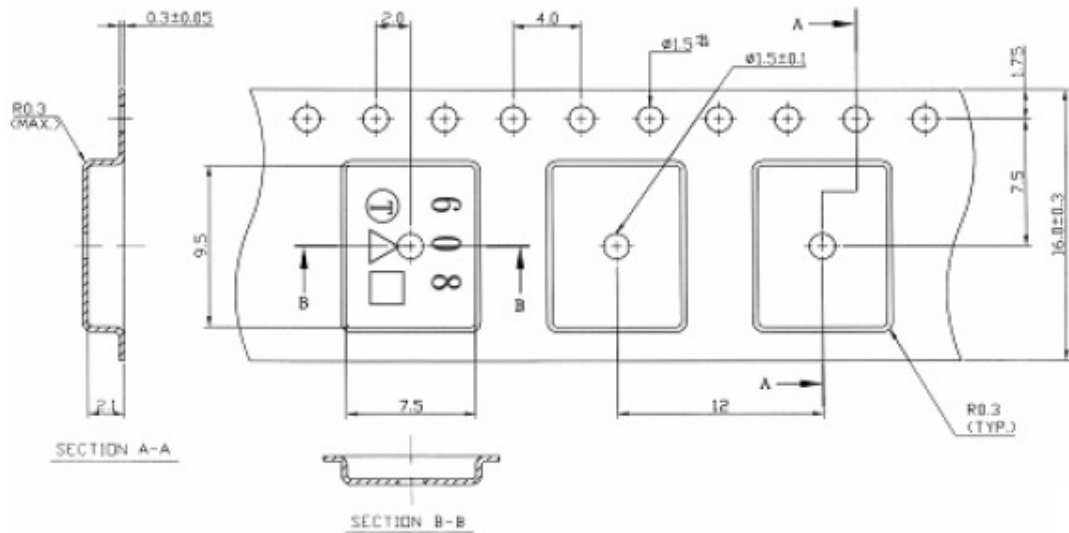
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



Unit: mm

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.

