



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 174 MHz SMD 7.0×5.0 mm (BW=5.72 MHz)

TST Part No.: TA1836B

Customer Part No.: _____

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

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/10/04

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 174 MHz

MODEL NO.:TA1836B

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 5 V
3. Operating Temperature: -45°C to +85°C
4. Storage Temperature: -55°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

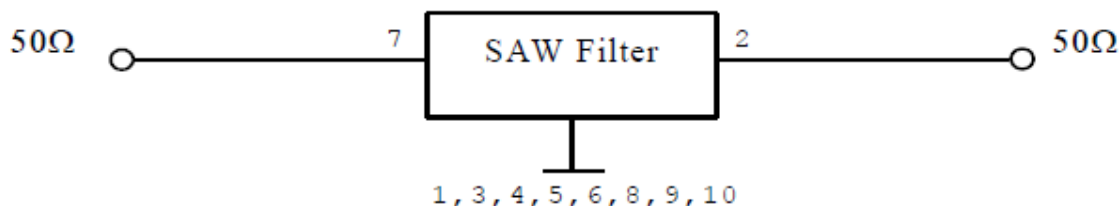
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

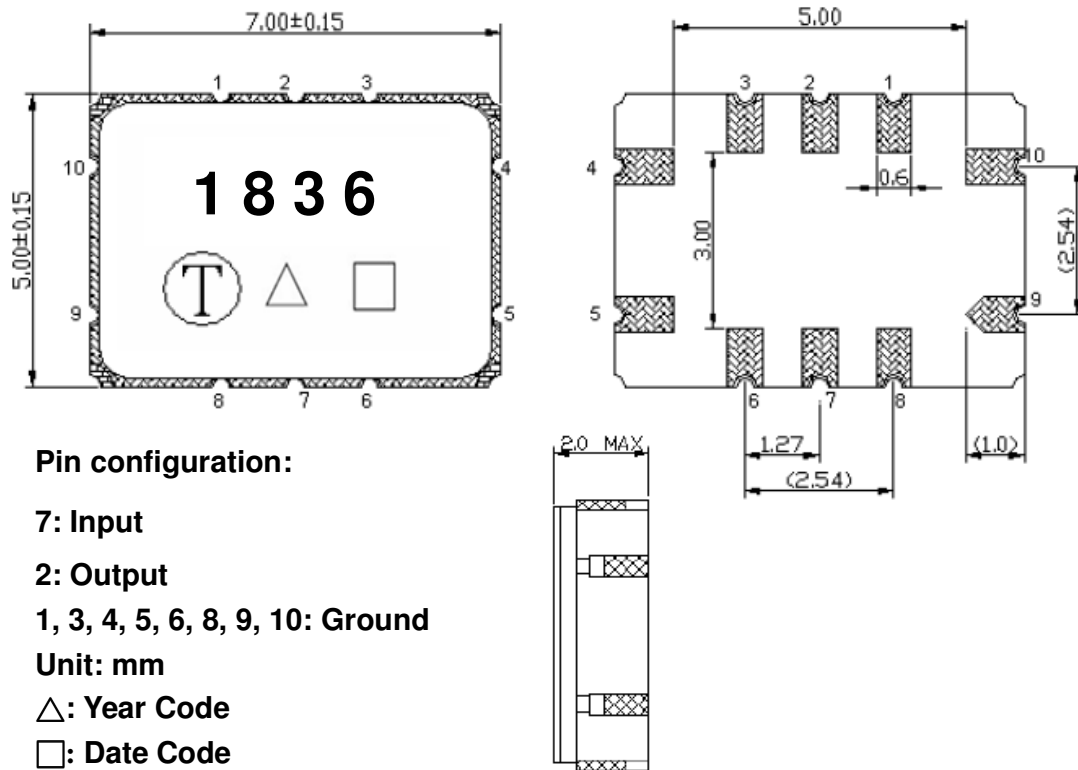
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	174	-
Insertion Loss (171.14~176.86 MHz) IL	dB	-	2.7	4.2
Attenuation (Reference level from 0 dB)				
74 ~ 164 MHz	dB	40	55	-
194 ~ 274 MHz	dB	40	47	-
Temperature coefficient of frequency	ppm/k	-	-81	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



Pin configuration:

7: Input

2: Output

1, 3, 4, 5, 6, 8, 9, 10: Ground

Unit: mm

△: Year Code

□: Date Code

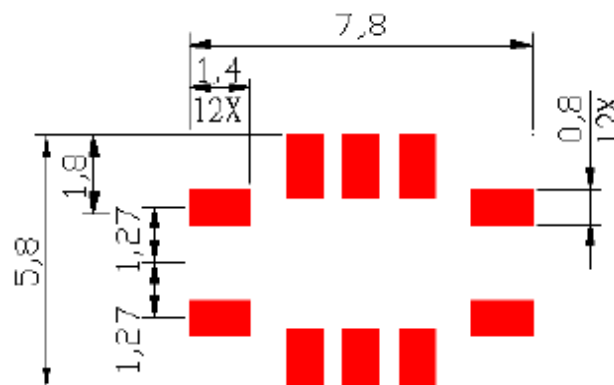
Product Year Code

Year	2013 2017 2021	2014 2018 2022	2015 2019 2023	2016 2020 2024
Product Code	A	a	<u>A</u>	<u>a</u>

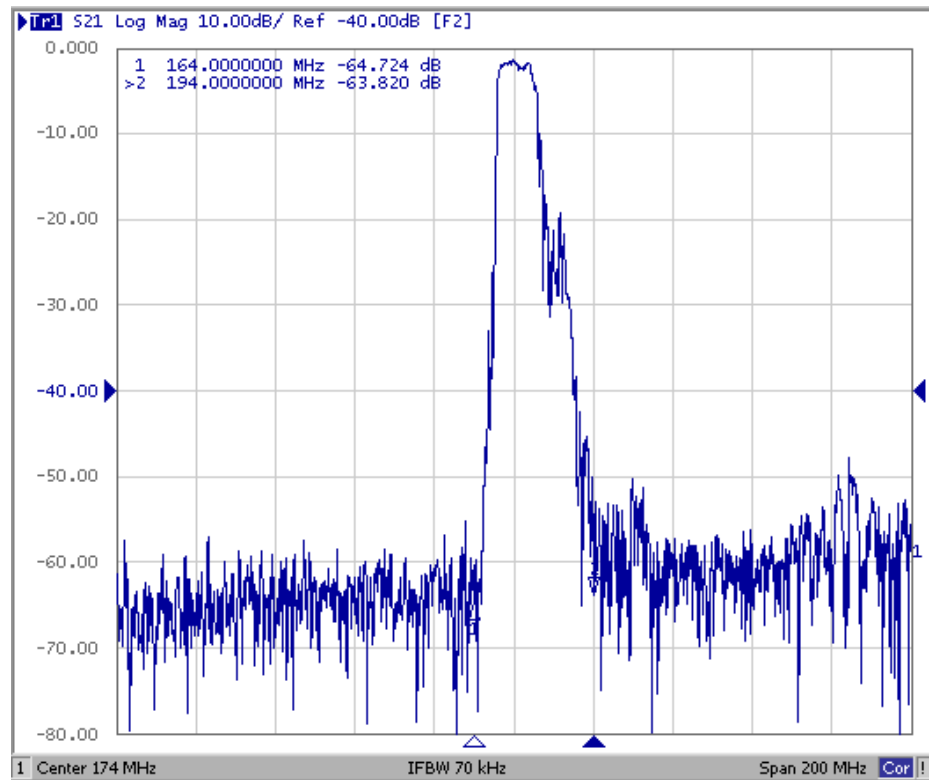
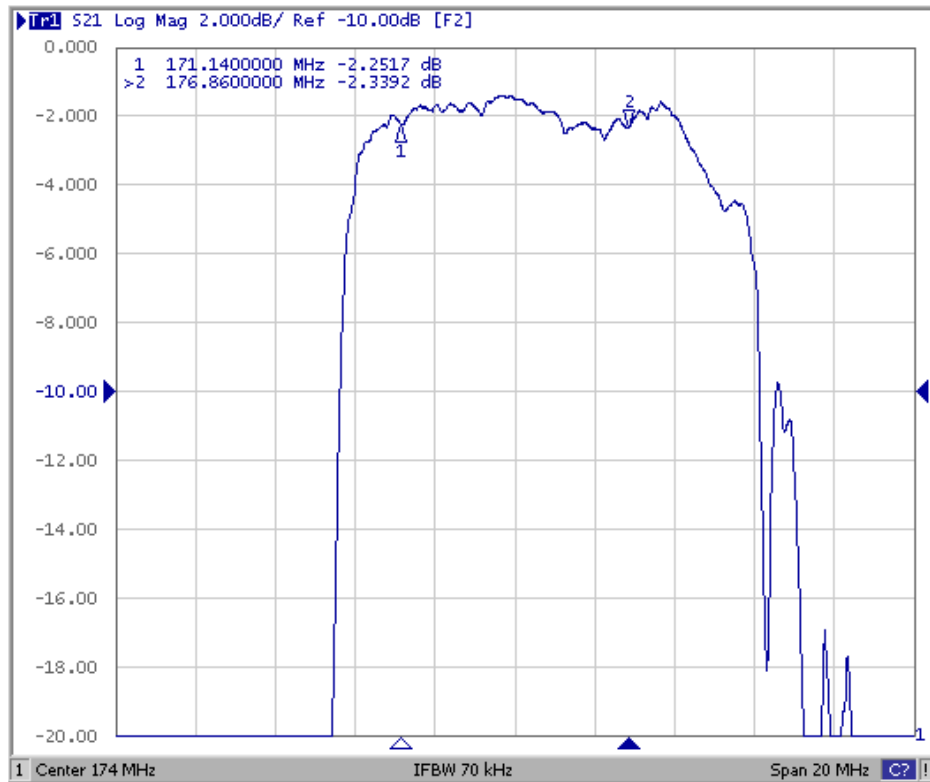
Date Code Table:

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

E. PCB Footprint:



F. Frequency Characteristics:



1. REEL DIMENSION

Technical drawing of a circular component. The main view shows a large circle with a central hole. A dashed circle indicates the hole's boundary. A leader line points from the text "See DETAIL 'A'" to the central hole. To the right, a vertical dimension line shows two diameters: $\phi 100$ REF. and $\phi 130$ REF. Below these, two horizontal dimension lines show distances: 16.8 and 24.2. A detailed view of the hole, labeled "DETAIL 'A'", shows a circular hole with a central crosshair. The hole's diameter is $\phi 130 \pm 0.5 / -0.2$. The hole's depth is 2.0 ± 0.5 . The hole's wall thickness is $\phi 20.2 \text{ mm}$.

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.

