



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 Name: SAW Filter 50MHz 10MHzBW SMD 7.0mm x 5.0mm

TST Parts No.: TB1357BA7017

Customer Parts No.: _____

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

Checked by: _____ Kenweis Lee *Kenweis Lee*

Approval by: _____ Kazuma Lee *Kazuma Lee*

Date: _____ 2023/02/07

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 50 MHz

MODEL NO.: TB1357BA7017

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 30 dBm
2. DC voltage: 3 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -55 °C to +125 °C
5. Moisture Sensitivity Level: Level 1 (MSL 1)

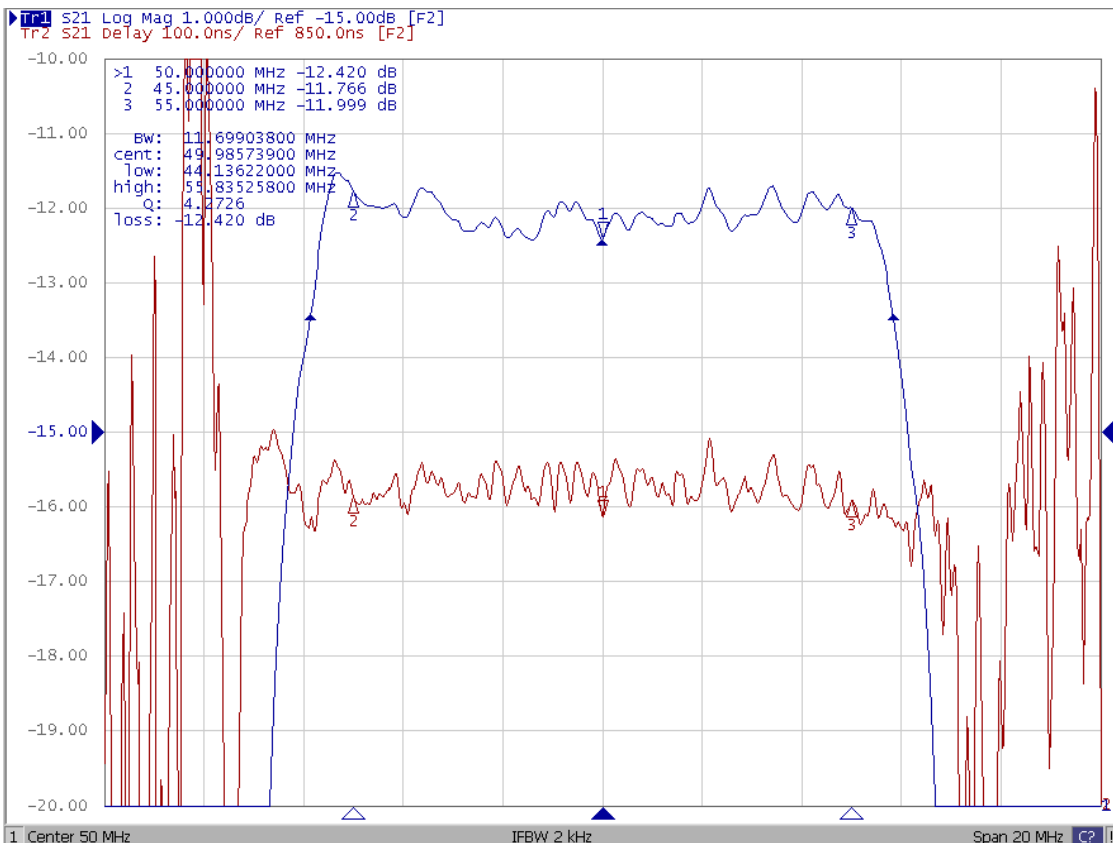
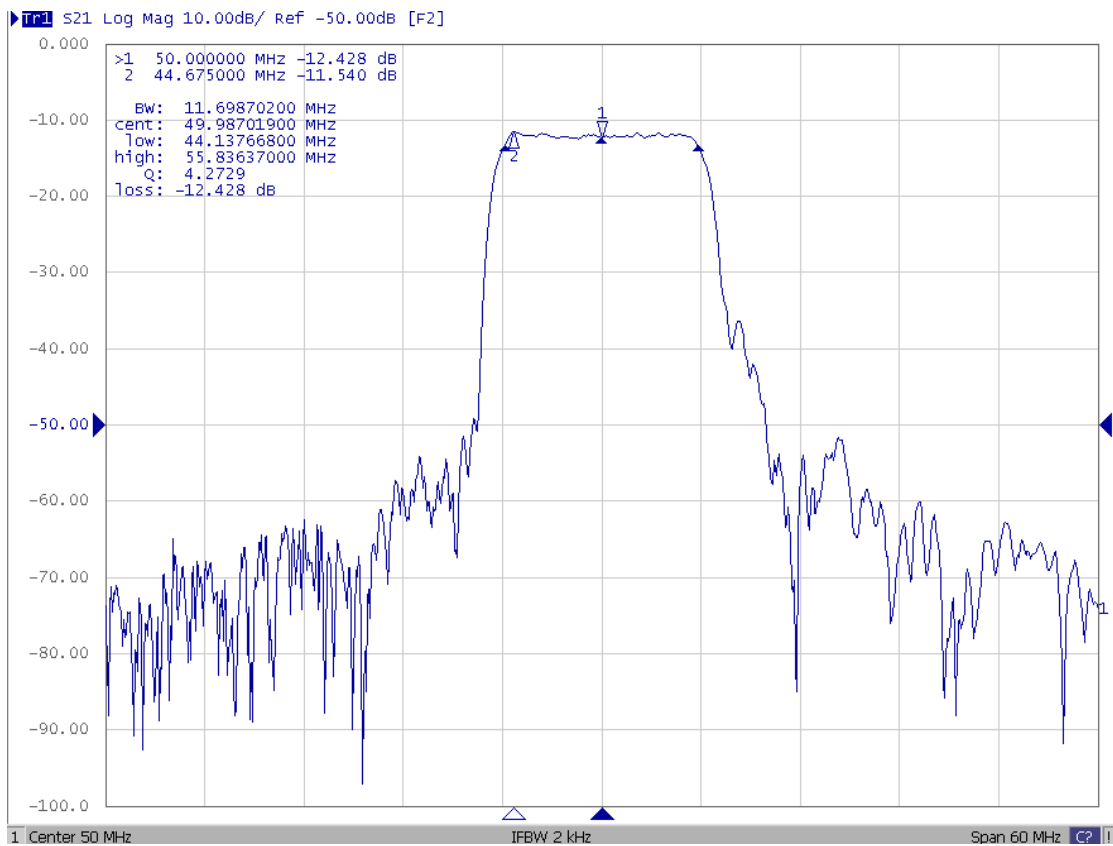
RoHS Compliant
Lead free
Lead-free soldering

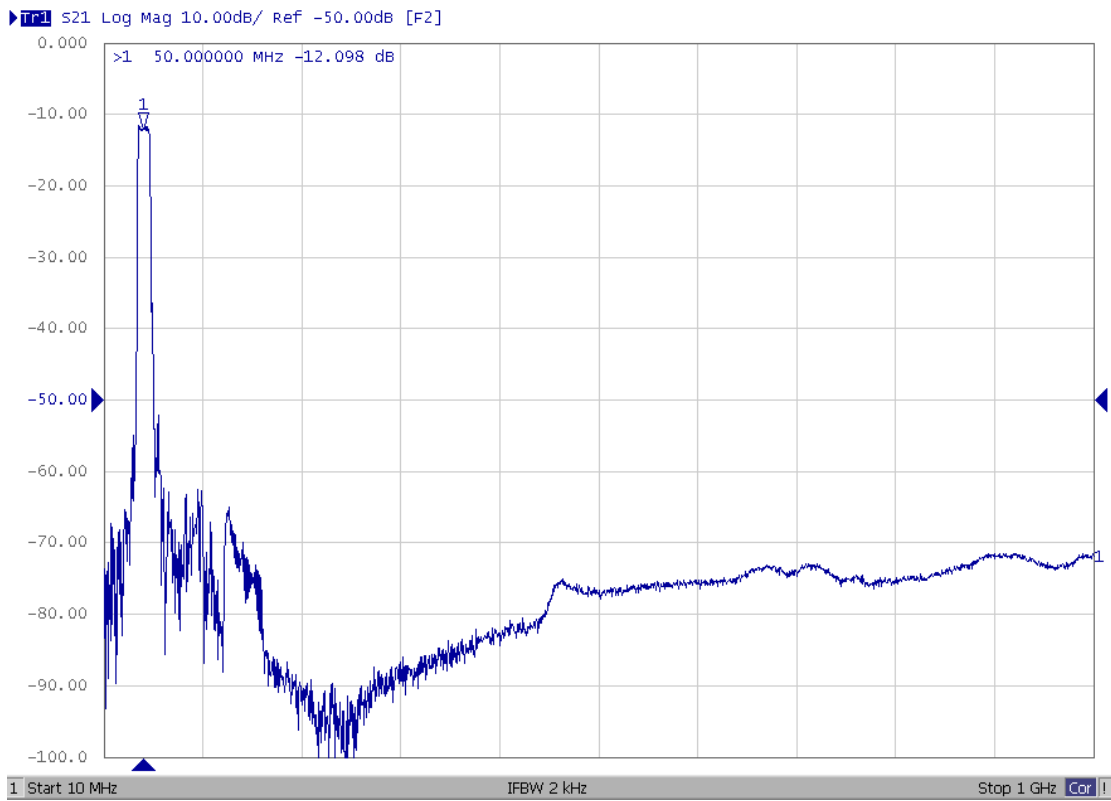
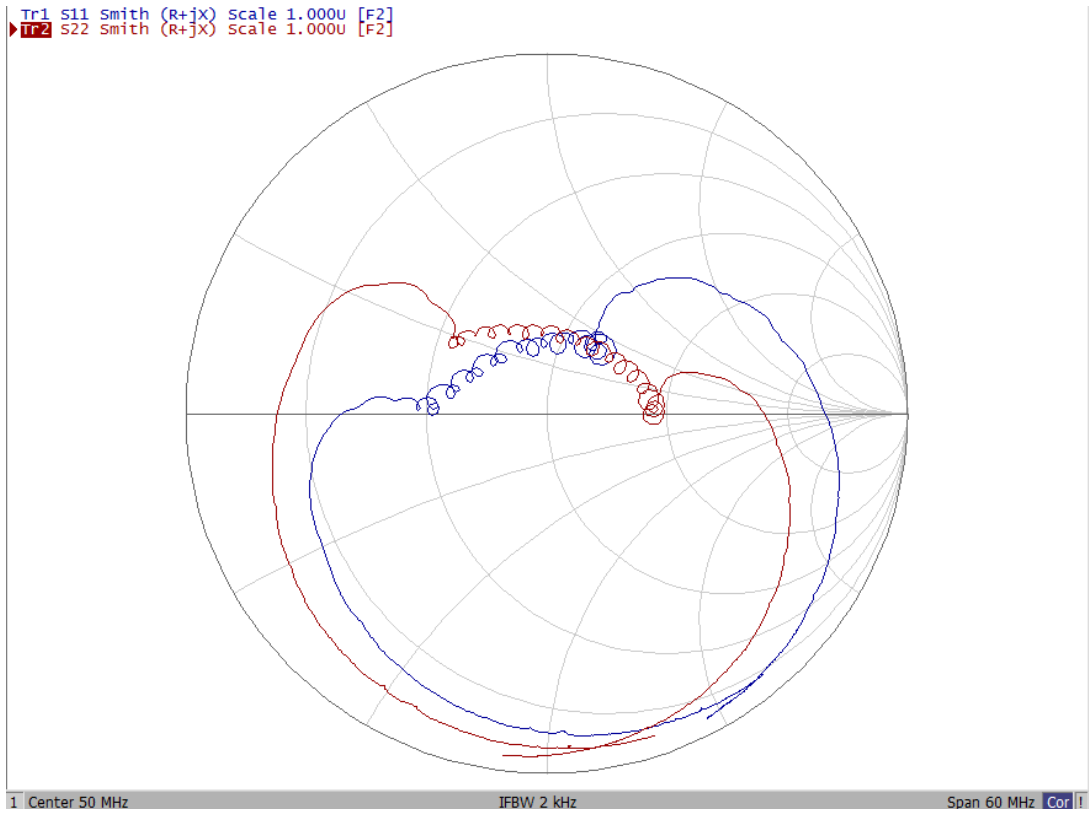
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

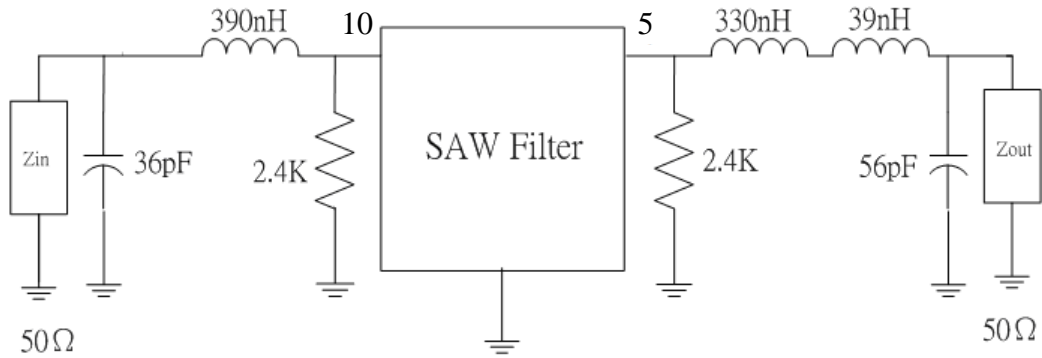
Item	Unit	Min.	Typ.	Max.
Center Frequency F_c	MHz	-	50	-
Minimum Insertion Loss IL_{min}	dB	-	11.5	13.0
1 dB Bandwidth	MHz	10.0	11.6	-
Amplitude Ripple (F_c±5 MHz)	dB	-	0.8	1.0
Group Delay Ripple (F_c±5 MHz)	nsec	-	90	140
Absolute Group Delay	µsec	-	0.74	-
Return Loss (F_c±5 MHz)	dB	9.0	9.5	-
Attenuation (Reference level from IL _{min})				
DC ~ 35 MHz	dB	45	50	-
35 ~ 40 MHz	dB	25	45	-
60 ~ 65 MHz	dB	25	39	-
65 ~ 1000 MHz	dB	40	46	-
Temperature Coefficient of Frequency	ppm/°C	-94		

C. FREQUENCY CHARACTERISTIC:

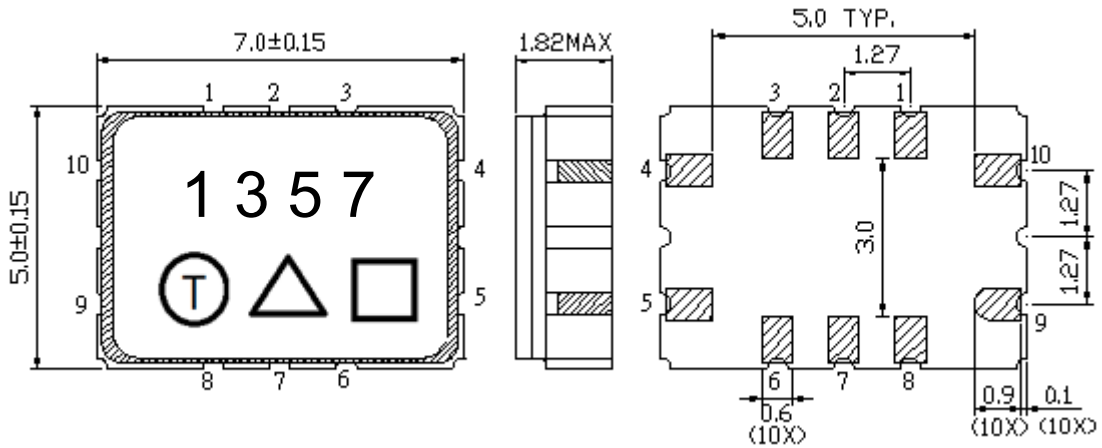




D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



Pin 10: Input

Pin 5: Output

Others: Ground

Unit: mm

△: Product / Year Code

□: Date Code

Product Code Table

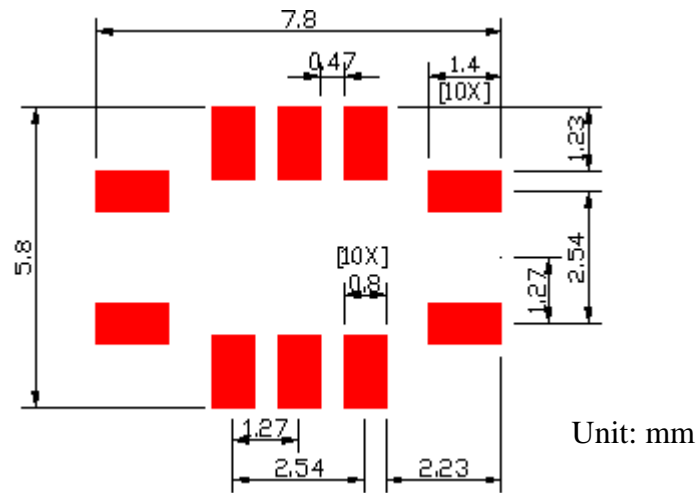
Year	2021 2025	2022 2026	2023 2027	2024 2028
Product Code	B	b	<u>B</u>	<u>b</u>

This table is four-year cycle (ex: Year 2029, △ will show “B”)

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

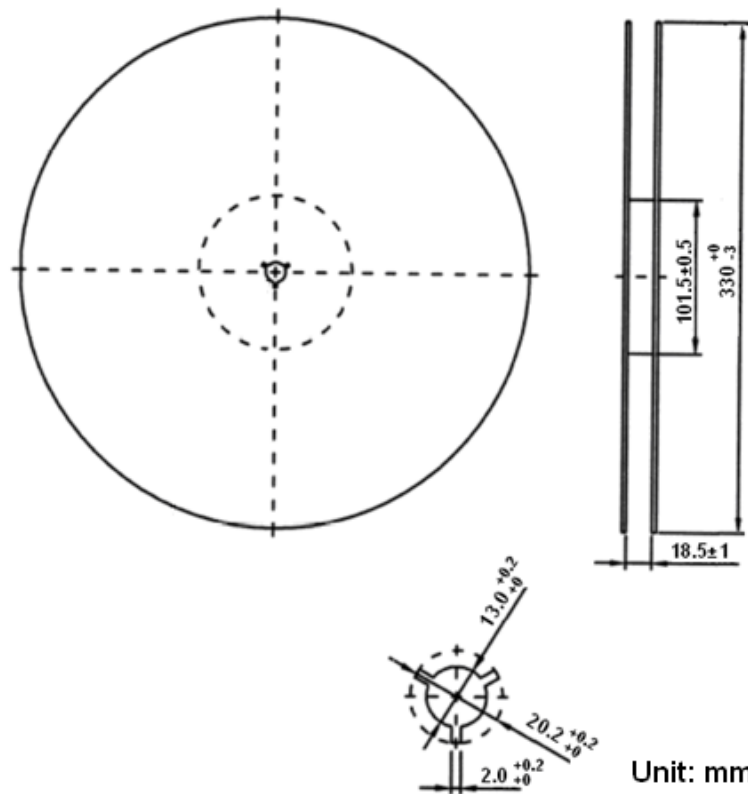
F. PCB FOOTPRINT:



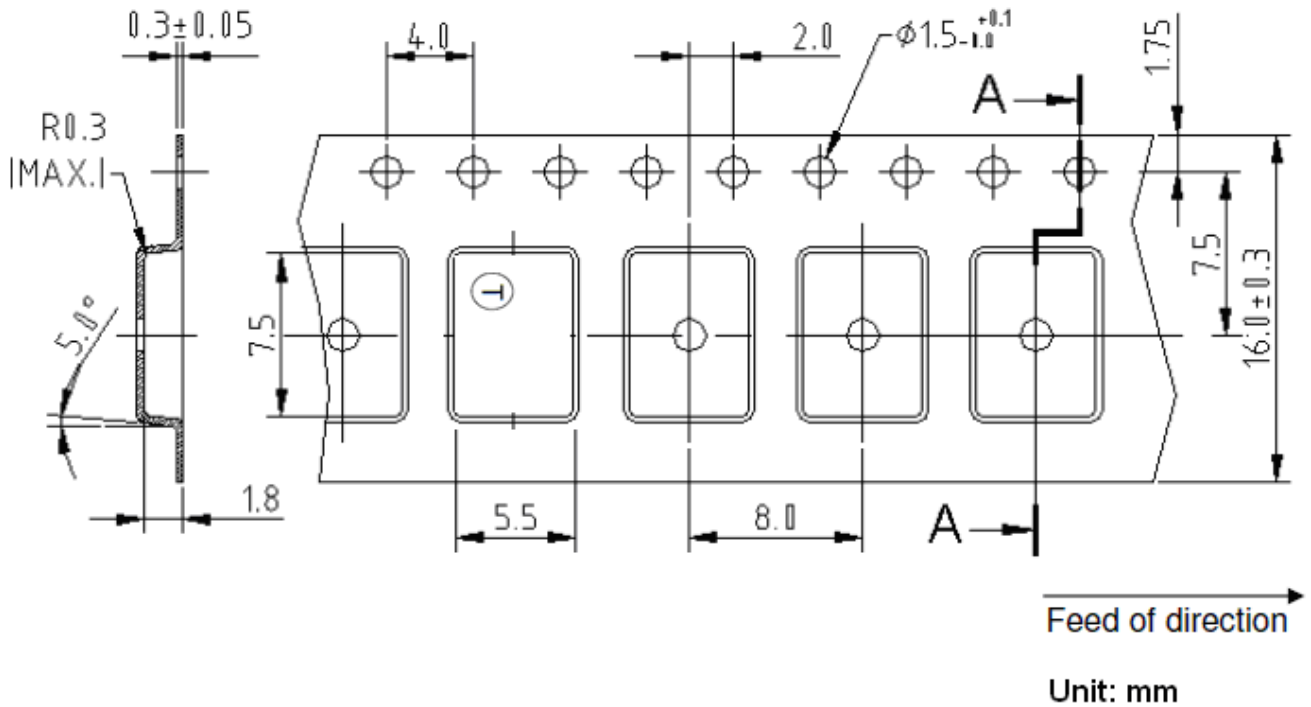
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ 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 $260^\circ\text{C} +0/-5^\circ\text{C}$ peak (20~40sec).
4. Time: 2 times.

