



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: SAW Filter 359 MHz SMD 5.0x7.0 mm (BW=22 MHz)

TST Parts No.: TB0656B

Customer Parts No.: _____

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

Checked by: _____ Hayley Chou

Approved by: _____ Andy Yu

Date: _____ 2018/04/18

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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FR-71S03-02

SAW Filter 359 MHz

MODEL NO.:TB0656B

REV. NO.:2.0

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

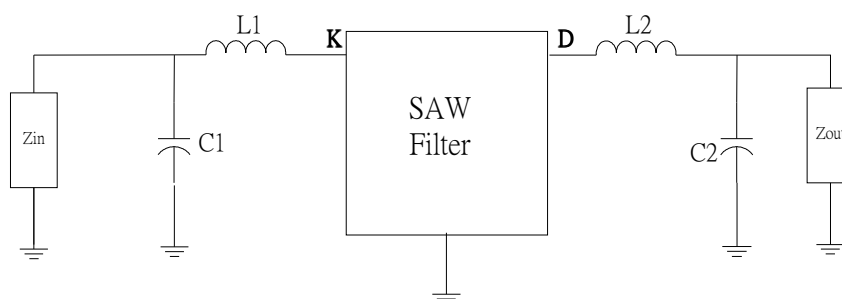
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

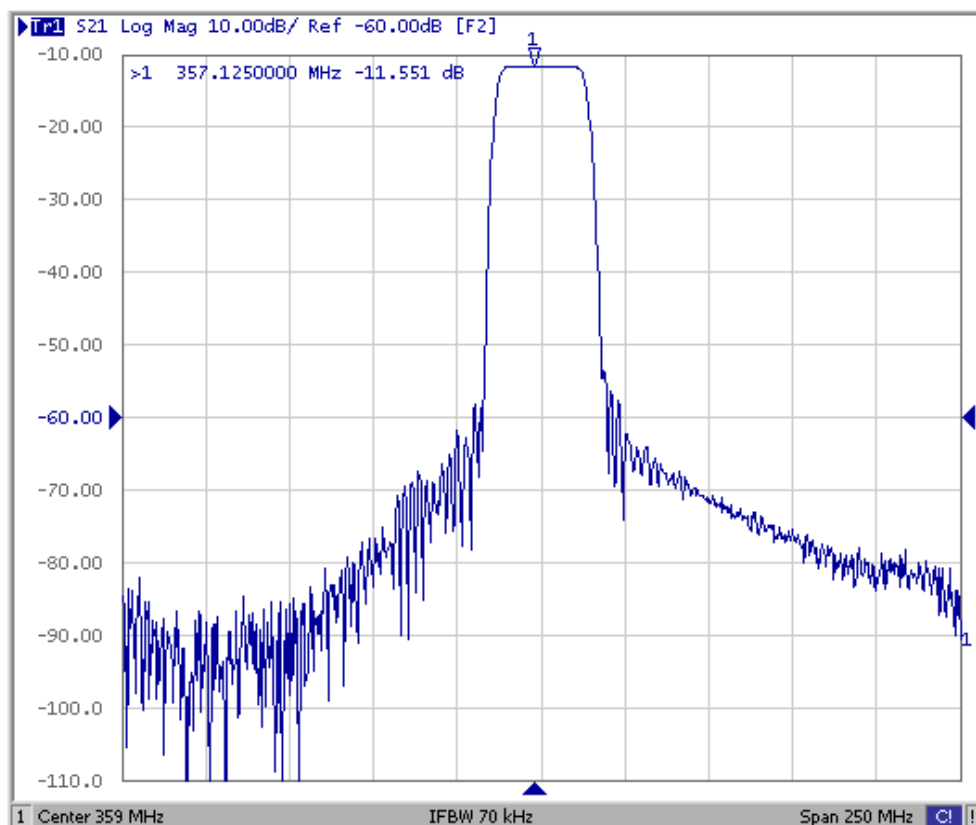
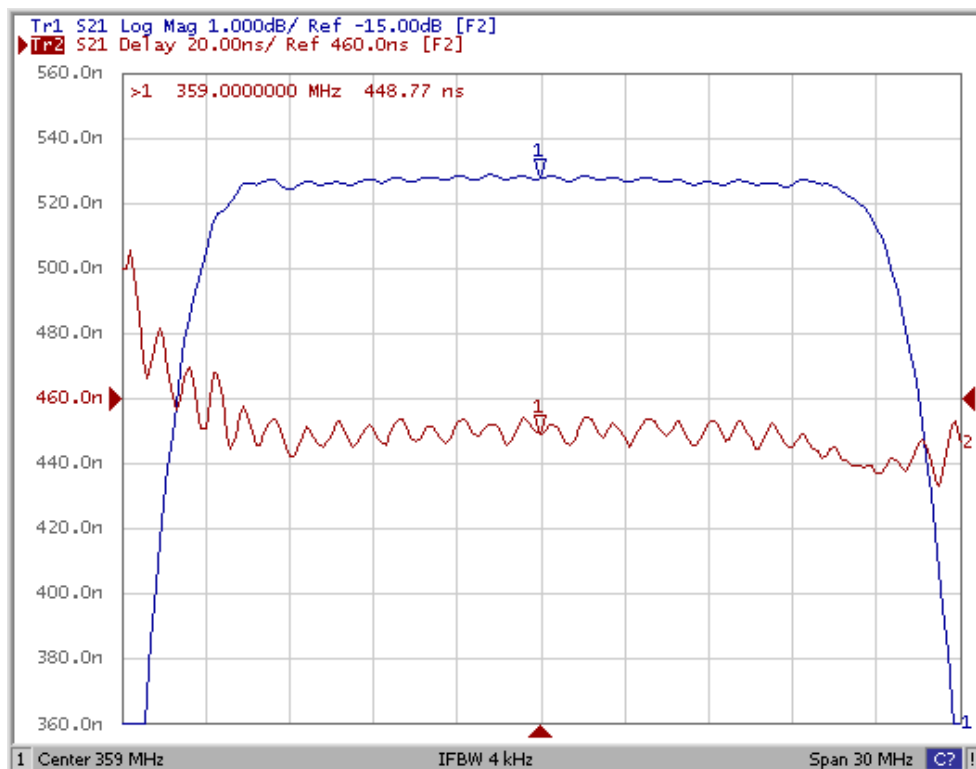
Parameters Description	Unit	Min.	Type.	Max.	
Center Frequency	Fc	MHz	-	359.2	-
Max. Insertion Loss	IL	dB	-	11.5	13.0
1 dB Bandwidth		MHz	22.0	24.1	-
Amplitude Ripple (Fc±11 MHz)		dB	-	0.2	0.7
Group Delay Ripple (Fc±11 MHz)		ns	-	17	30
Group Delay Slope		ns	-	5	-
Attenuation (Reference level from IL)					
319 ~ 336 MHz		dB	40	48	-
336 ~ 342 MHz		dB	40	45	-
374.8 ~ 379 MHz		dB	-	14	-
379 ~ 401 MHz		dB	40	44	-
Temp Coefficient	ppm/°C	-18			
Note: Group Delay compensate with 360MHz filter					

C. MEASUREMENT CIRCUIT:



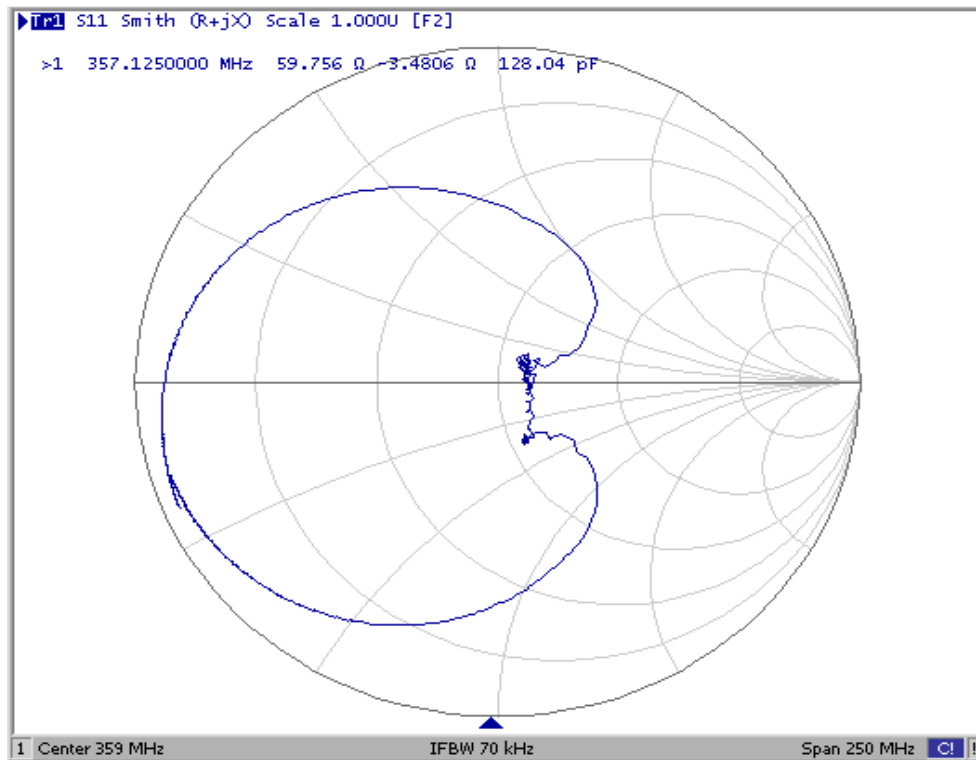
$L1=22\text{ nH}$, $C1=18\text{ pF}$; $L2=25\text{ nH}$, $C2=20\text{ pF}$

D. FREQUENCY CHARACTERISTIC:

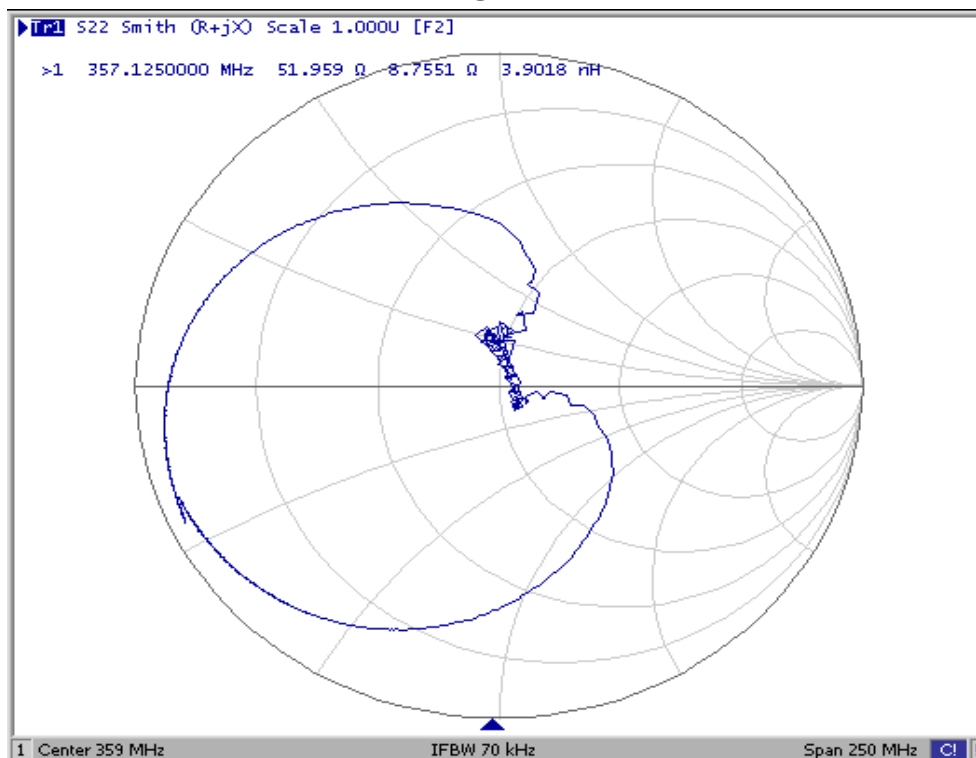


Reflection Functions:

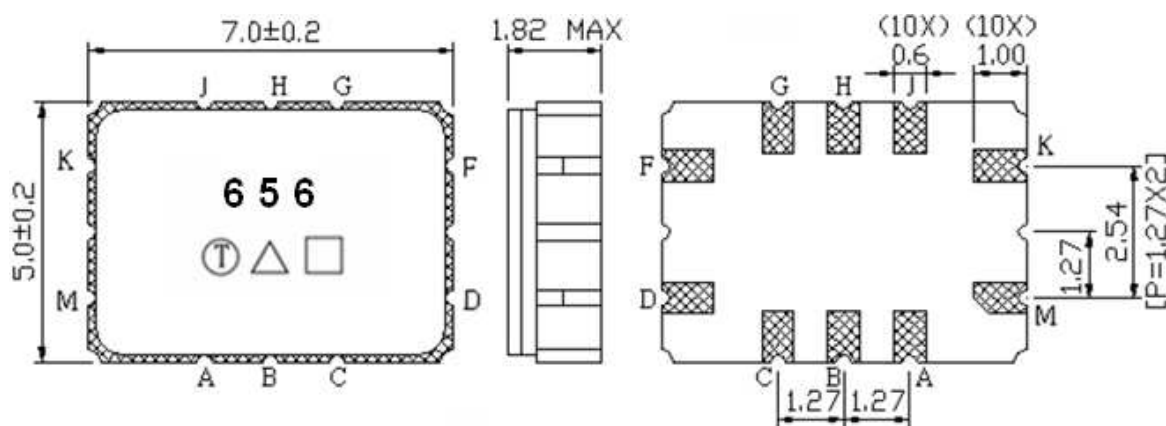
S11



S22



E. OUTLINE DRAWING:



Pin K: Unbalanced Input

Pin D: Unbalanced Output

Pin A, B, C, F, G, H, J, M: To be ground

Unit: mm

△: Product / Year Code

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

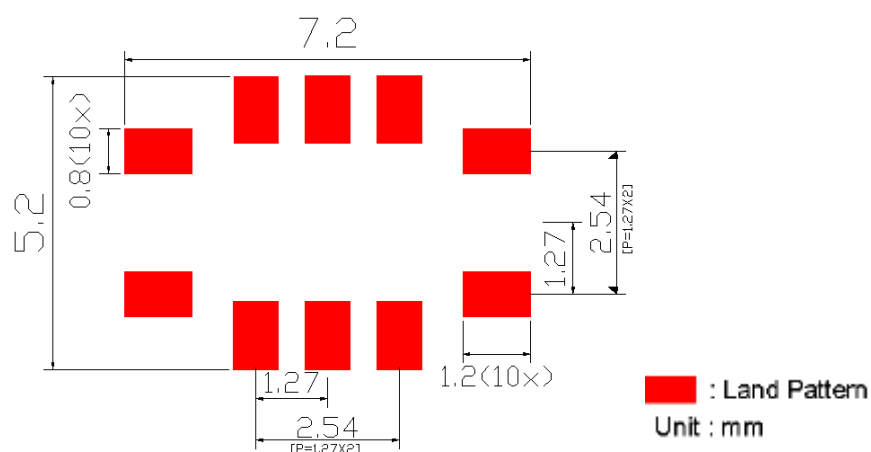
Product / Year Code Table:

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

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:



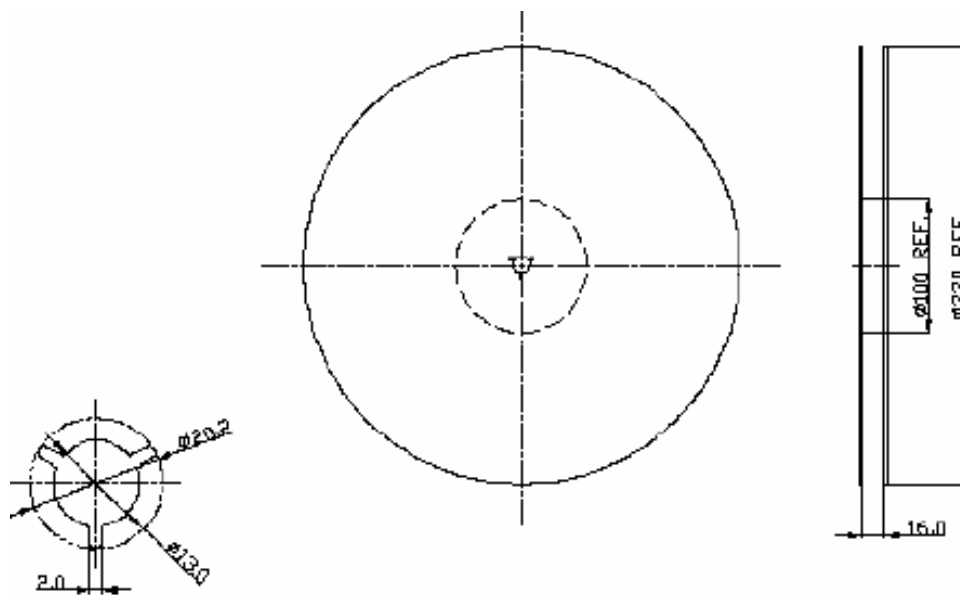
G. PACKING: (Ref: WI-75M03)

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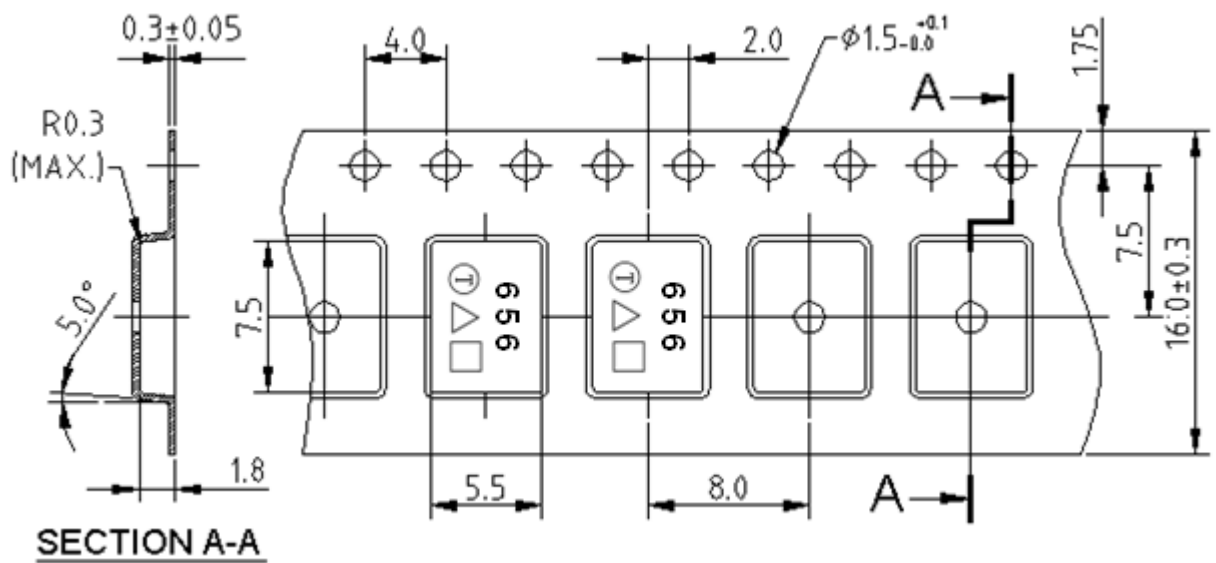
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1. REEL DIMENSION

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



2. TAPE DIMENSION



Direction of Feed
→

H. Recommended Reflow Profile:

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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.

