



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: IF SAW Filter 345 MHz SMD 7.0X5.0 mm (BW=5 MHz)

TST Part No.: TB0671A

Customer Part No.: _____

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

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/12/14

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 345 MHz

MODEL NO.: TB0671A

REV. NO.: 2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 10 V
3. Operating Temperature: -40 °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

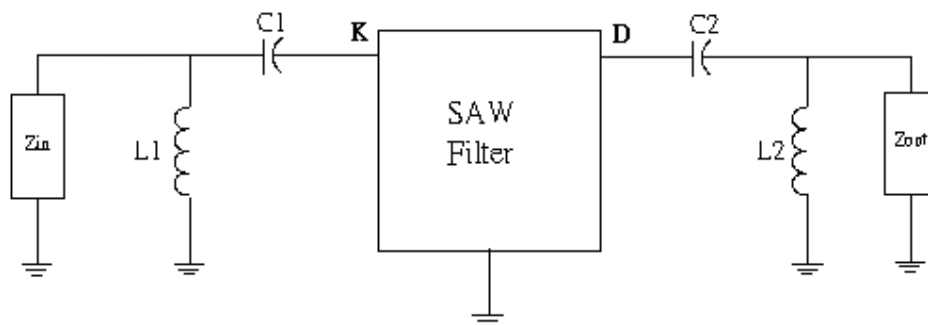
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25 °C

Item	Unit	Min.	Type.	Max.	
Center Frequency	F _c	MHz	-	345	-
Minimum Insertion Loss	IL	dB	-	11.3	12.5
1 dB Bandwidth		MHz	5.0	6.5	-
3 dB Bandwidth		MHz	-	8.1	-
35 dB Bandwidth		MHz	-	13.8	16.0
Passband Ripple (F _C ±2.5 MHz)		dB	-	0.7	1.0
S11 Return Loss (F _C ±2.5 MHz)		dB	-	4.5	-
Attenuation (Reference level from minimum insertion loss)					
245 ~ 320 MHz		dB	40	53	-
370 ~ 445 MHz		dB	40	46	-
Temp Coefficient		ppm/°C	-18		

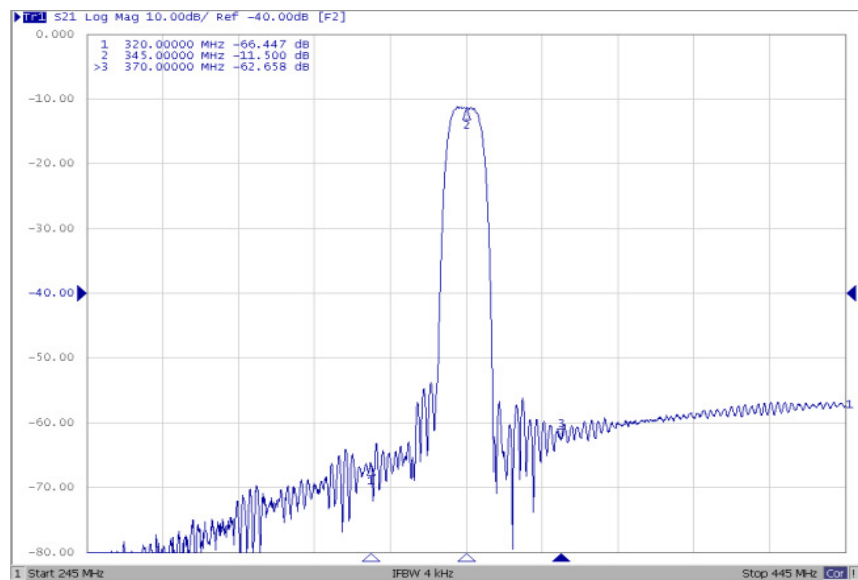
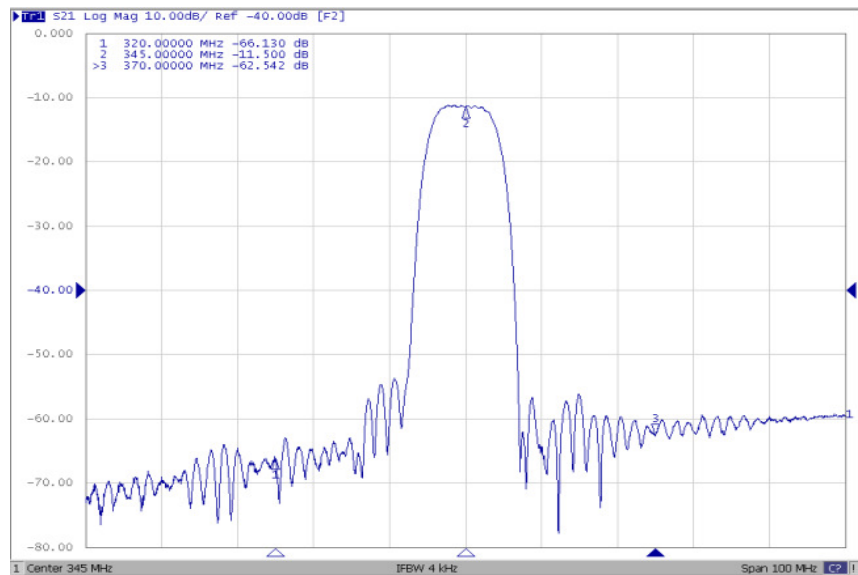
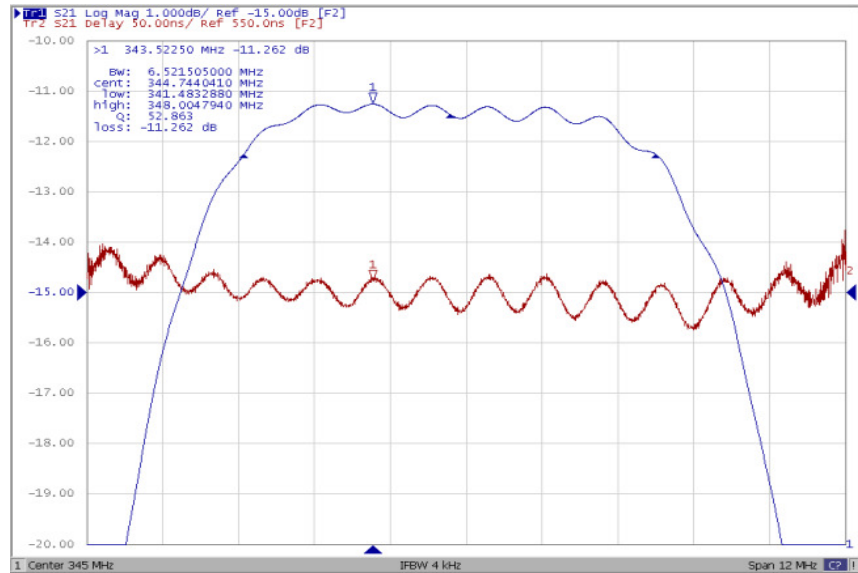
C. MEASUREMENT CIRCUIT:



Z_{in} = Z_{out} = 50 ohm

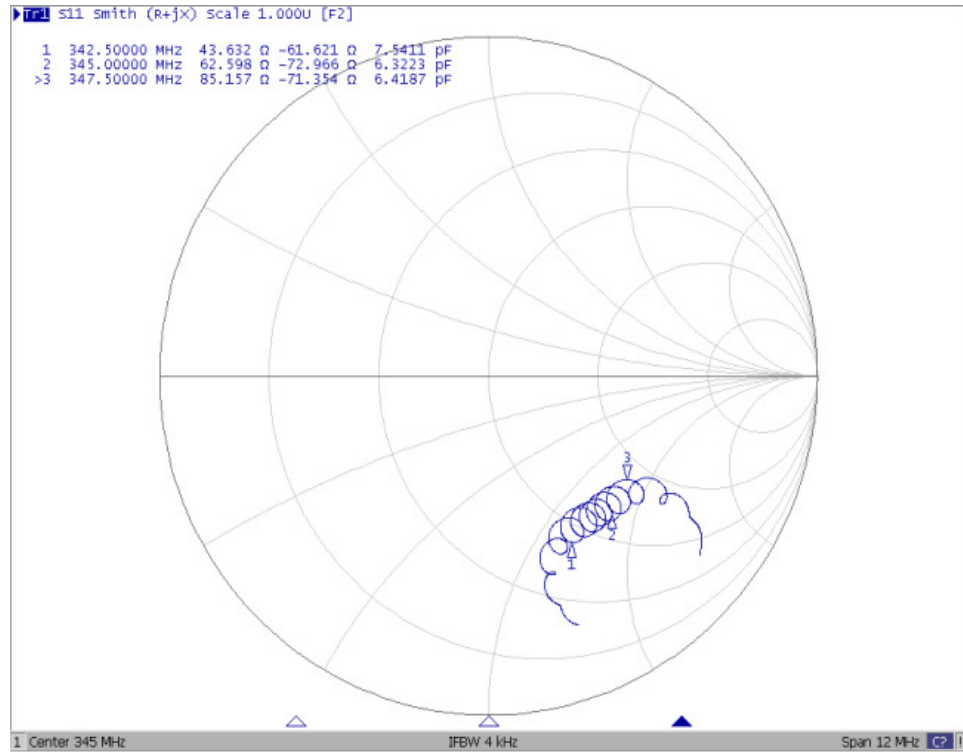
L1=27nH, C1=57pF, L2=18nH, C2=68pF

D. FREQUENCY CHARACTERISTIC:

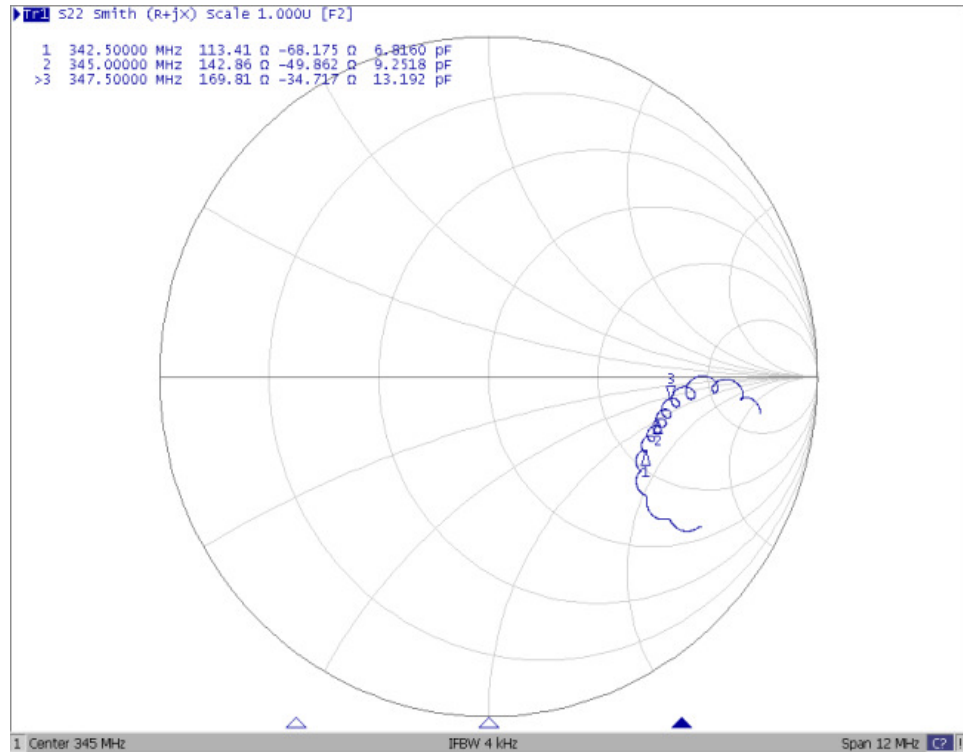


Reflection Functions:

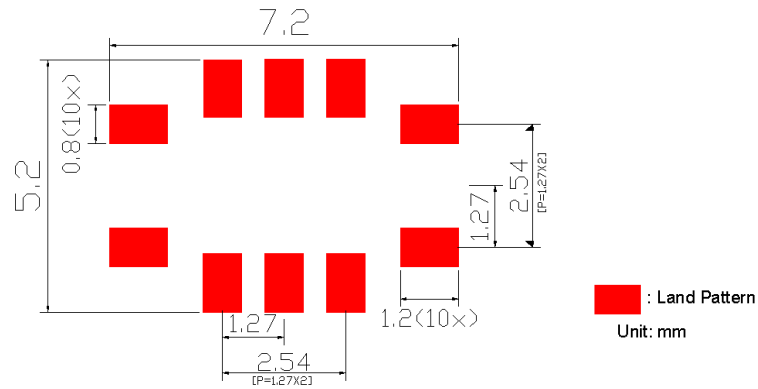
S11



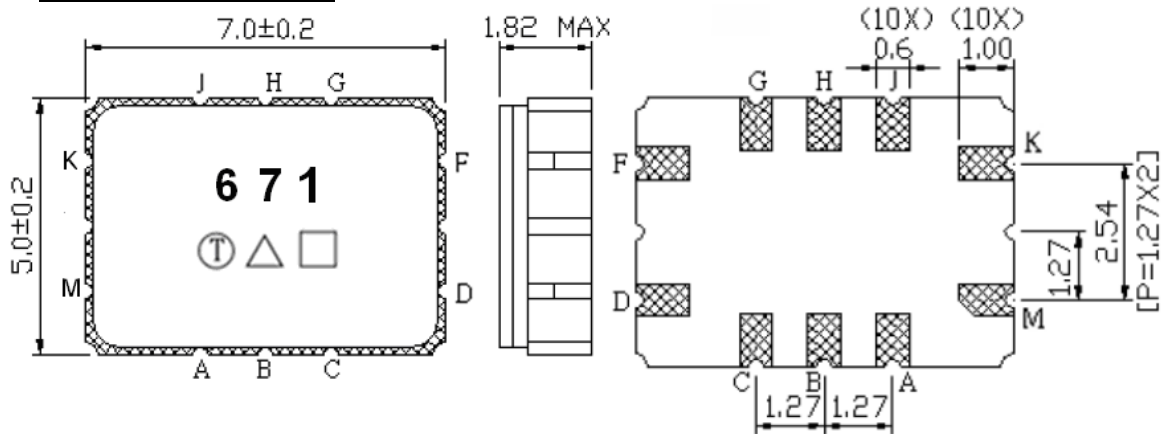
S22



E. PCB Footprint:



F. OUTLINE DRAWING:



Pin K: Input

Pin D: 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>

This table is four-year cycle (ex: Year 2021, △ will show "B")

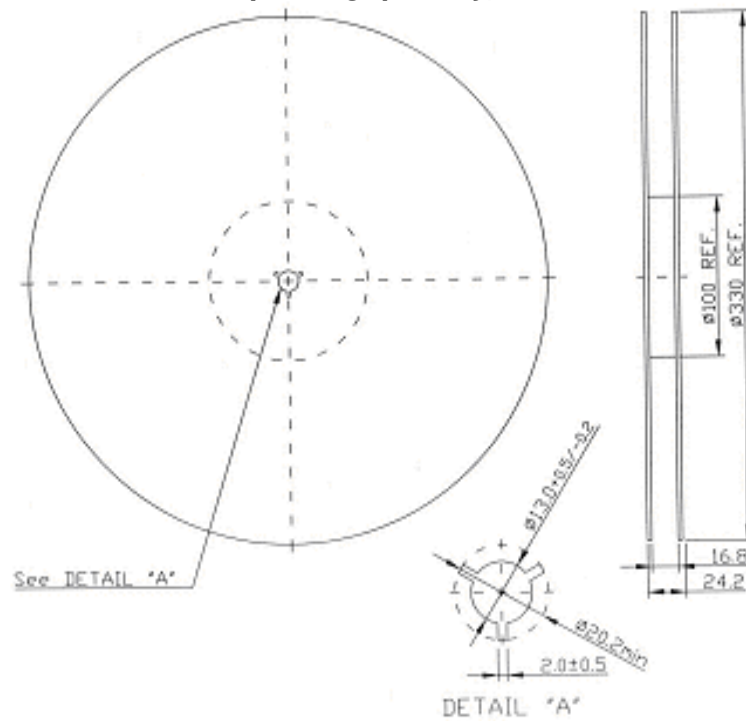
Week Code Table:

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

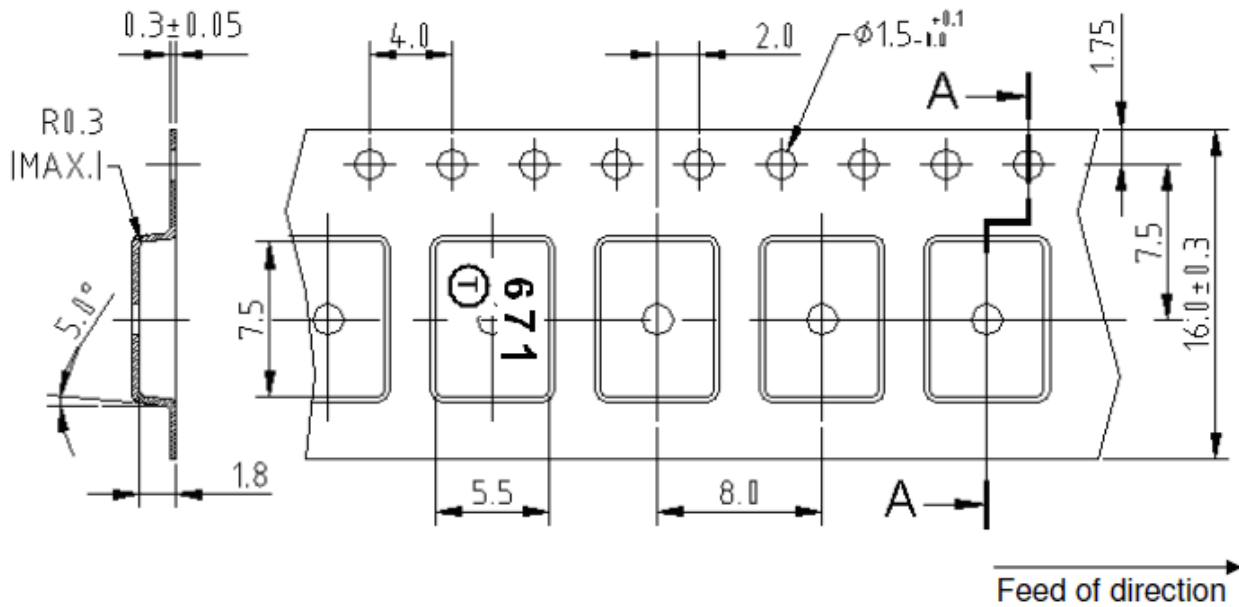
G. PACKING: (Ref: WI-75M03)

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.

