



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: 868.3MHz 1.5MHz BW SMD 3.0 x 3.0 mm SAW RF Filter

TST Part No.: TA1852B (This part is compliance with AEC-Q200)

Customer Part No.: _____

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

Checked by: _____ Kazuma Lee 

Approved by: _____ Bob Chau 

Date: _____ 07 / 25 / 2017

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 868.3 MHz

MODEL NO.: TA1852B

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: : -40°C to +125°C
4. Storage Temperature: -40°C to +125°C

RoHS Compliant
Lead free
Lead-free soldering

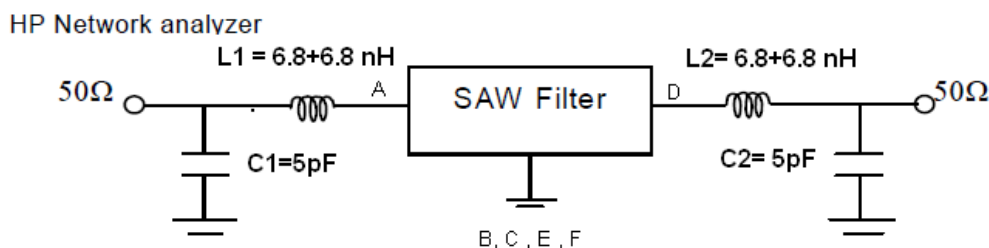
Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

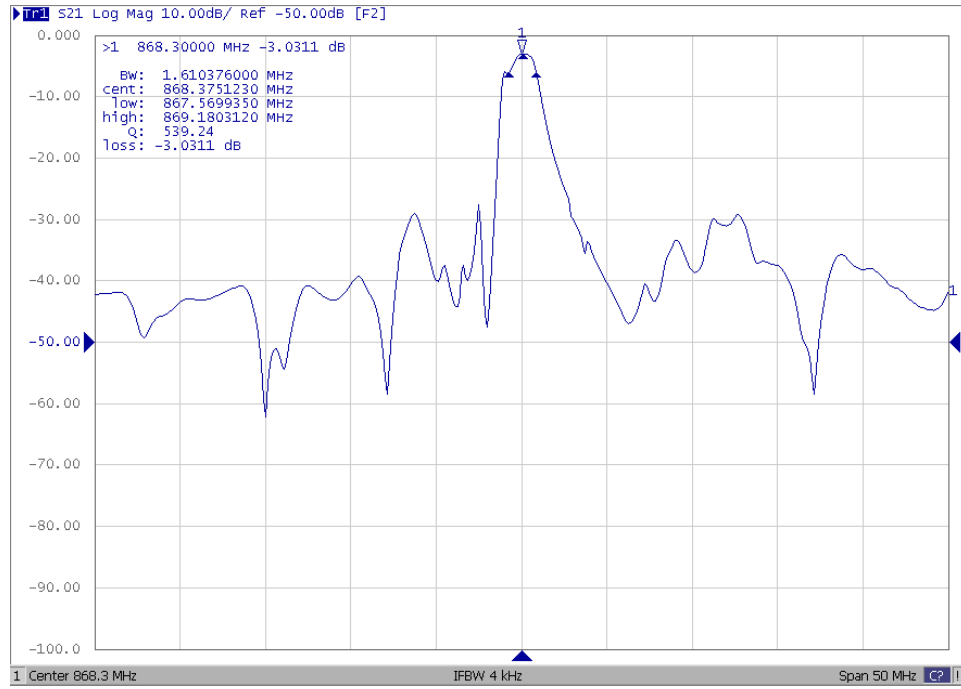
Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	868.3	-
Insertion Loss	dB	-	3.0	3.8
3dB Bandwidth (from Fc)	MHz	±0.3	1.6	-
Stop Band Attenuation:(from minimum loss point)				
10 ~ 600 MHz	dB	50	64	-
600 ~ 850 MHz	dB	33	38	-
850 ~ 860 MHz	dB	10	36	-
860 ~ 865.5 MHz	dB	20	25	-
871 ~ 878 MHz	dB	10	23	-
878 ~ 1000 MHz	dB	21	26	-
1000 ~ 1300 MHz	dB	40	49	-
1300 ~ 2500 MHz	dB	30	65	-
Impedance at Fc : Z _{IN} = R _{IN} // C _{IN}	Ω	162.2Ω // 3.3pF		
Z _{OUT} = R _{OUT} // C _{OUT}	Ω	162.2Ω // 3.3pF		

C. MEASUREMENT CIRCUIT:

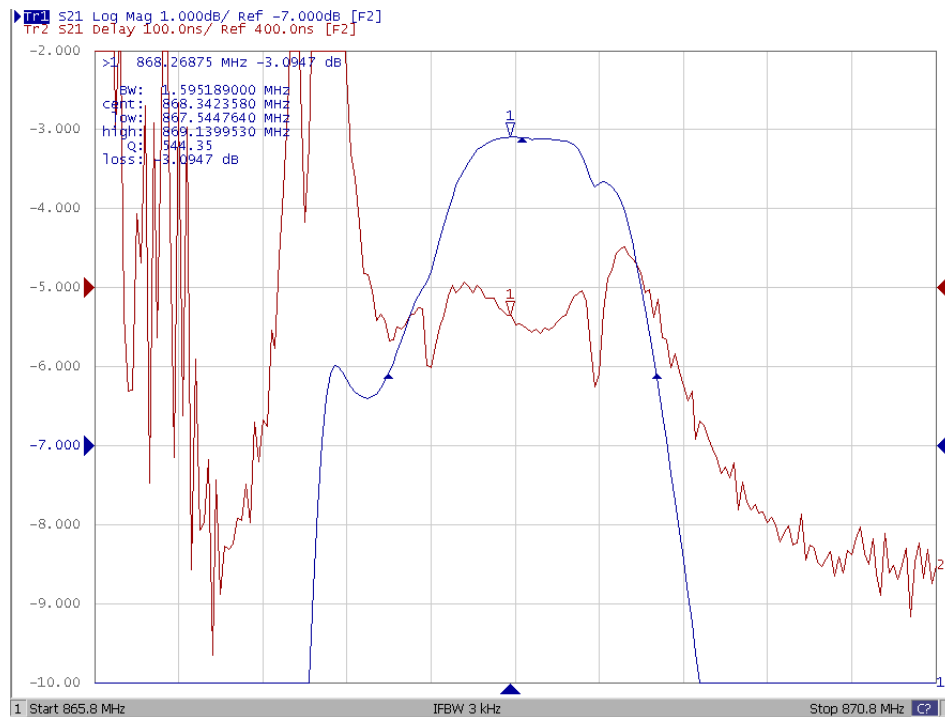


D. FREQUENCY CHARACTERISTICS:

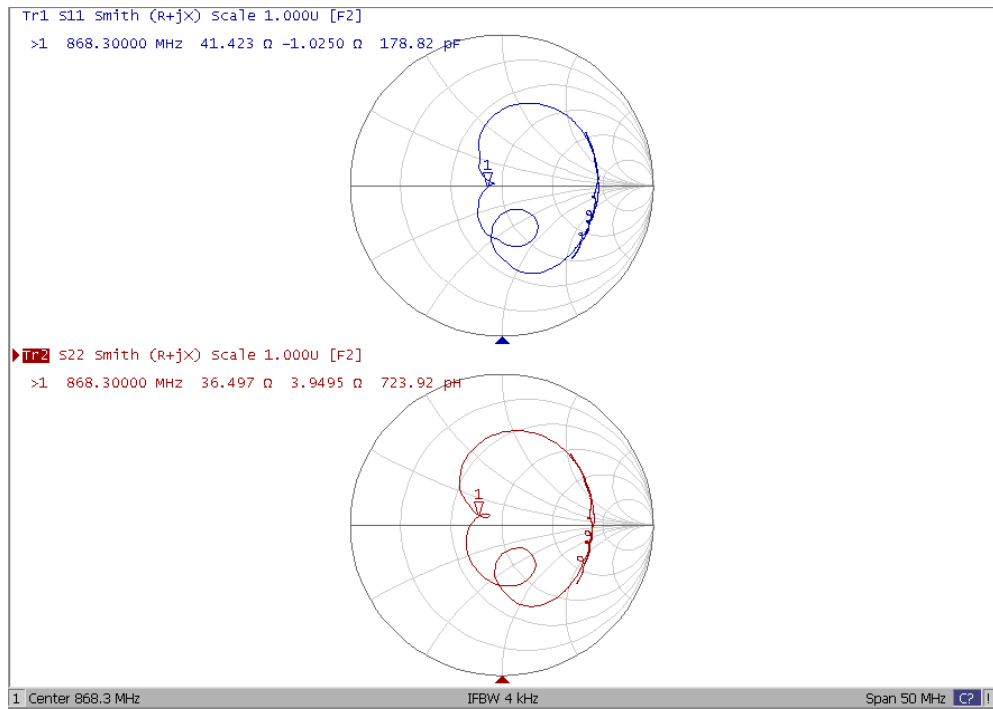
(1) Wide band Response:(span 50MHz) :



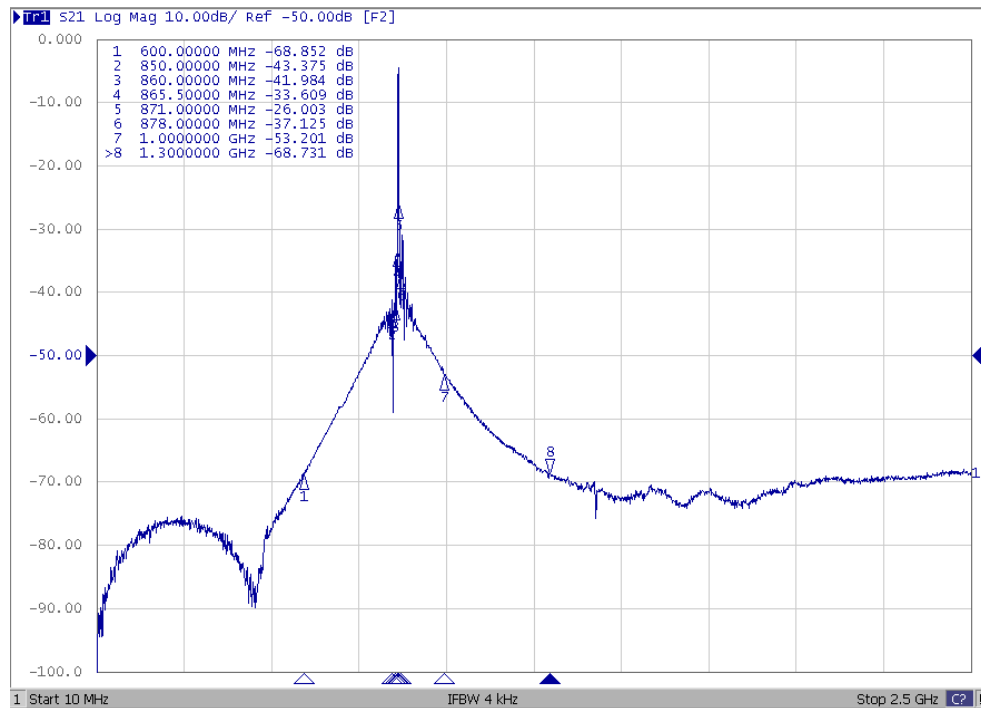
(2) Pass band Response and Group Time Delay response:



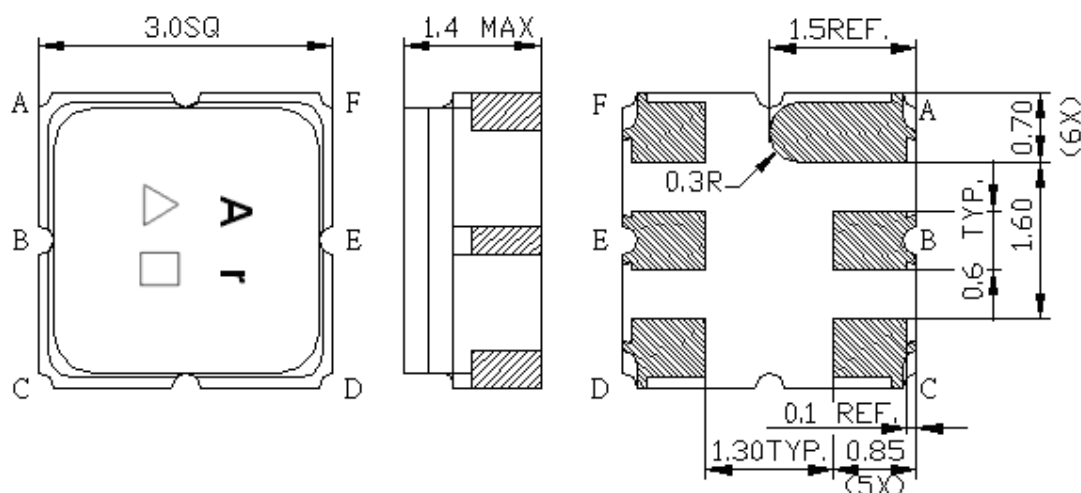
(3) Smith Chart :



(4) Wide Band :



E.OUTLINE DRAWING:



#A : Input

#D : Output

#B, C, E, F : Ground

△ : Product / Year Code

□ : Date Code

Unit : mm

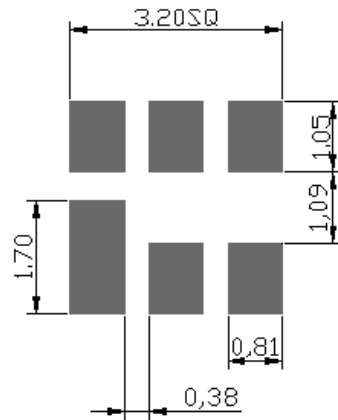
△ Year code :

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	2020	2021	2022	2023	2024	2025	2025	2027	2028	2029
Code	0	1	2	3	4	5	6	7	8	9

□ Data 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

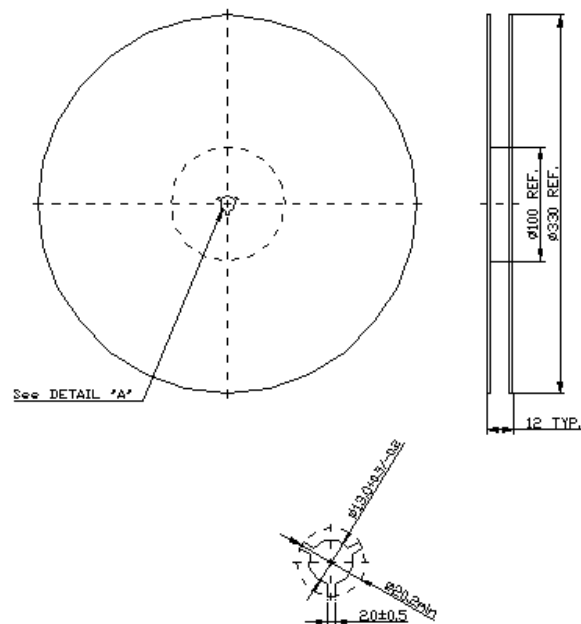
F. PCB FOOTPRINT :



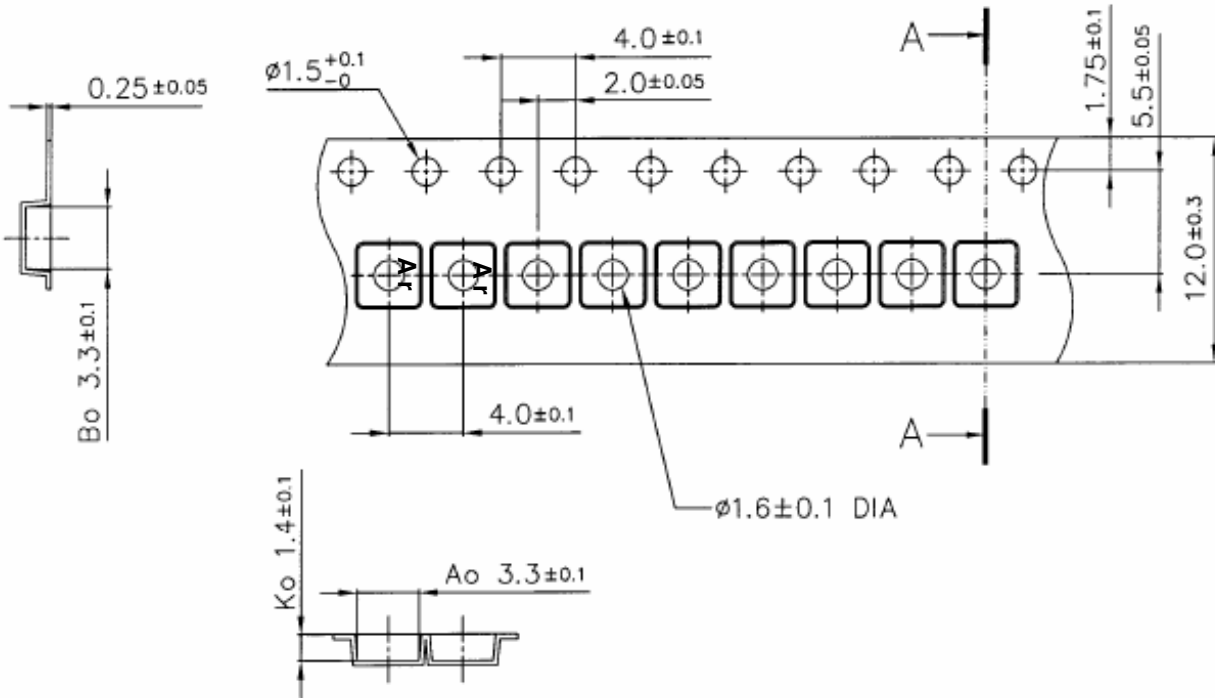
G. PACKING:

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 $260^{\circ}\text{C} \pm 0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

