



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: 169.4375 MHz 75kHz BW SMD 5.0X5.0 mm SAW IF Filter

TST Part No.: TB1168A

Customer Part No.: _____

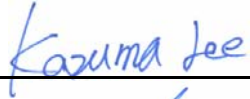
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approved by: _____ Bob Chau 

Date: _____ 11/13/2014

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 169.4375MHz

MODEL NO.: TB1168A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage : 5 V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

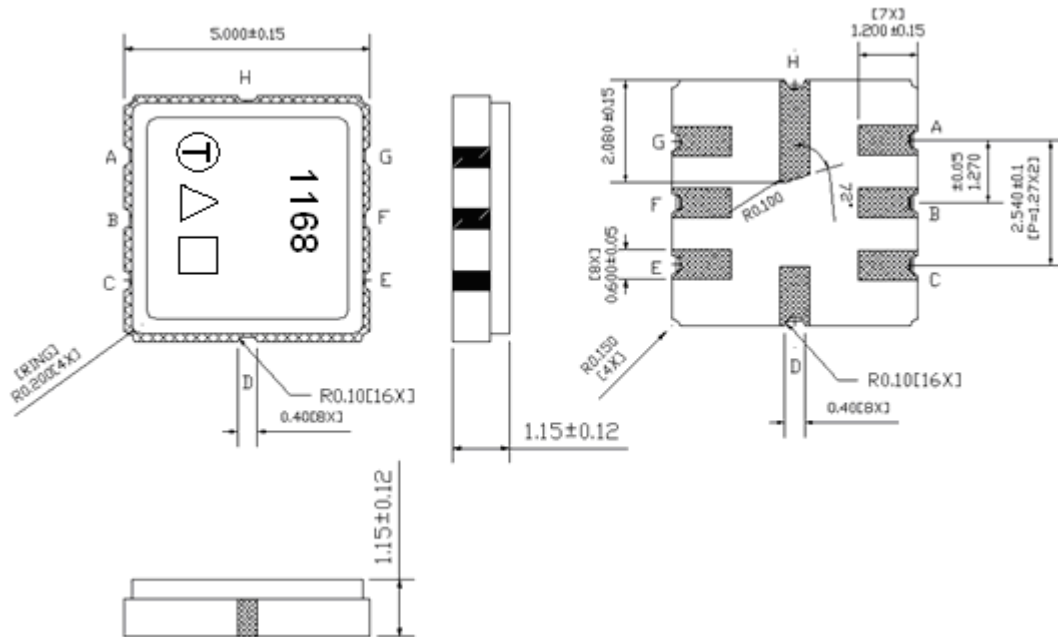
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note
Center frequency, Fc	MHz	-	169.4375	-	-
Insertion loss at center frequency ILc	dB	-	4.3	6.0	-
Ripple (169.4 ~ 169.475 MHz)	dB	-	1.6	2.0	-
Attenuation (reference level from ILc)					
Fc - 4 to Fc - 0.92 MHz	dB	40	60	-	-
Fc - 0.92 to Fc - 0.31 MHz	dB	30	59	-	-
Fc + 0.31 to Fc + 0.92 MHz	dB	30	54	-	-
Fc + 0.92 to Fc + 4 MHz	dB	40	46	-	-
Temperature coefficient of frequency TCf	-0.033 ppm/C²				

Note1. Considering -12 KHz frequency shift from -20°C to +70°C

C. OUTLINE DRAWING:



Pin A –RF input

Pin B –RF input ground

Pin E –RF output

Pin F –RF output ground

Pin C,D,G,H - Ground

□ : Week Code

Unit : mm

△ : Product / Year Code

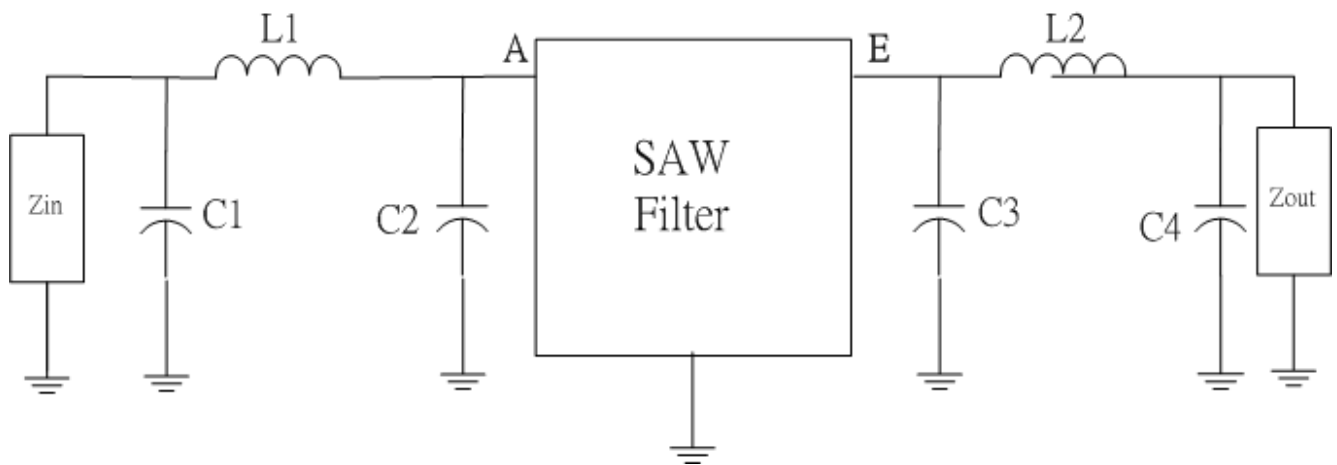
Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	B	b	<u>B</u>	<u>b</u>

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

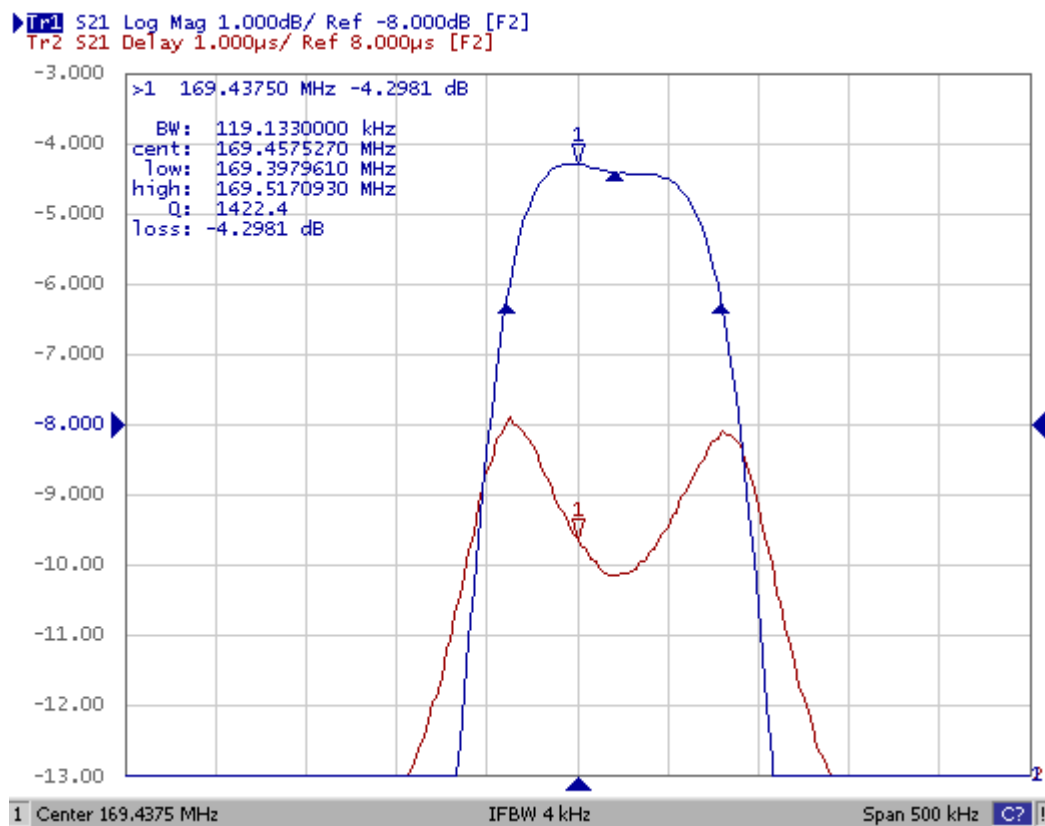
D. MEASUREMENT CIRCUIT:

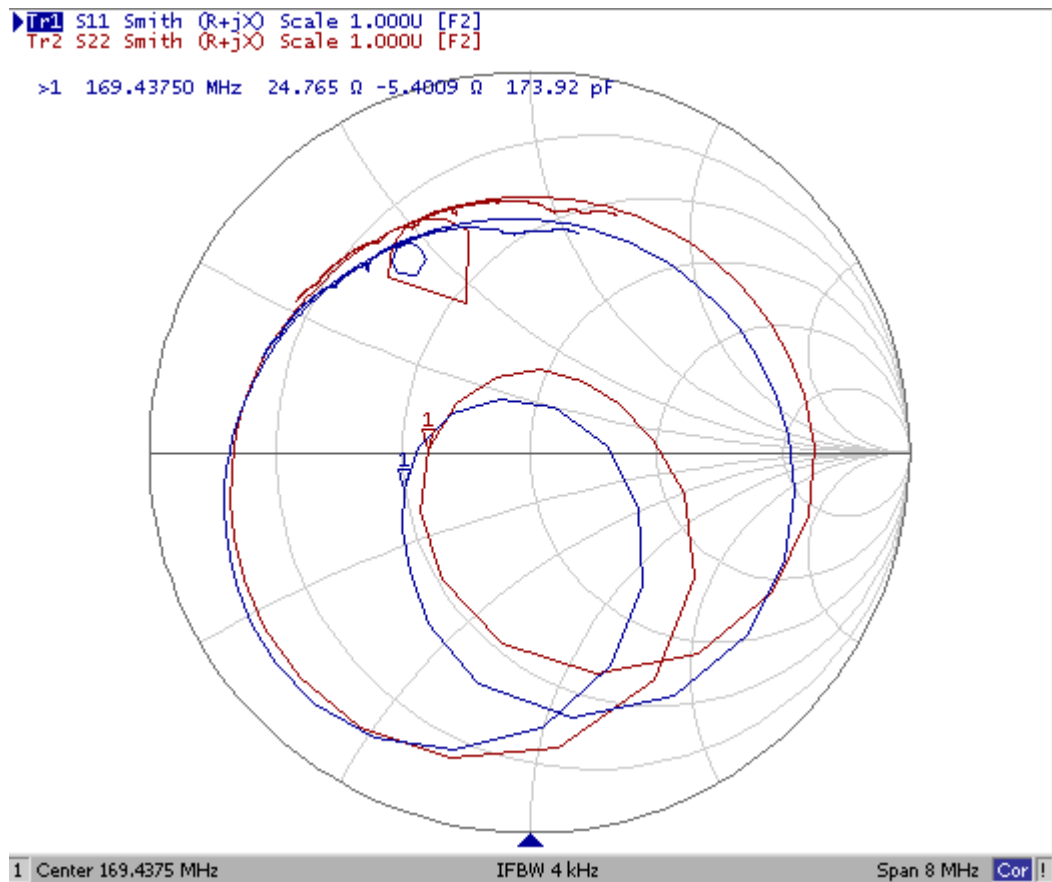
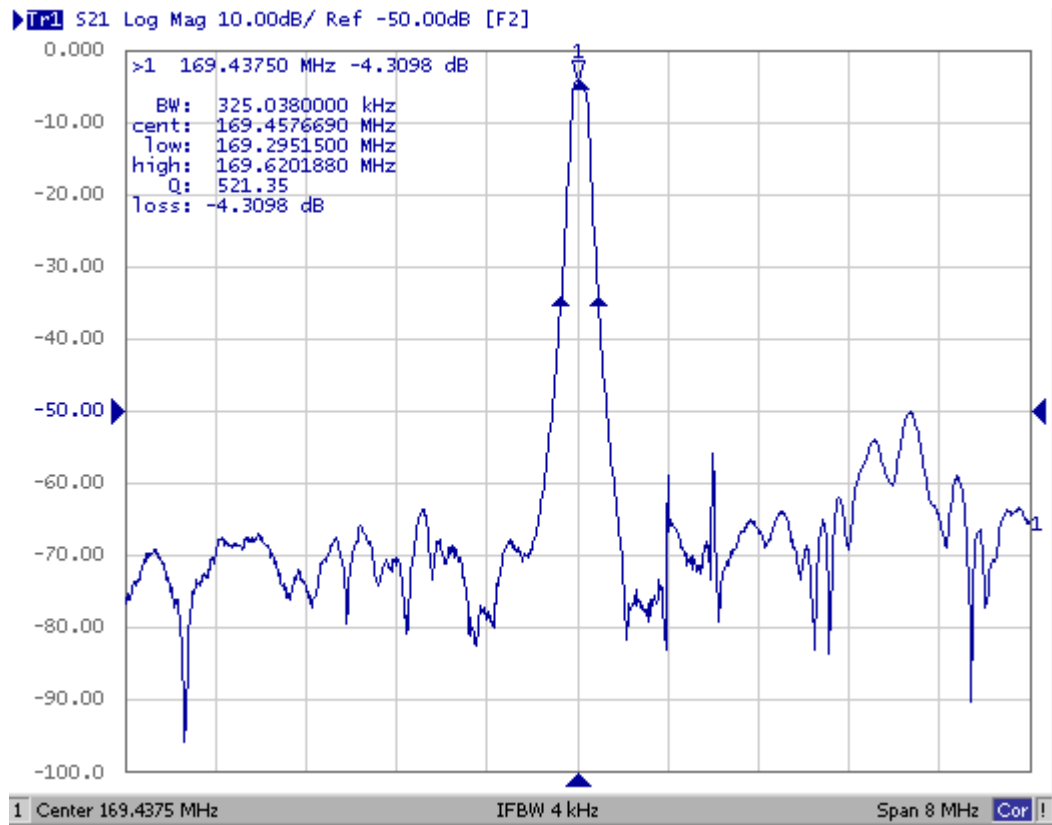
50 Ohm Test circuit (single-ended / single-ended)



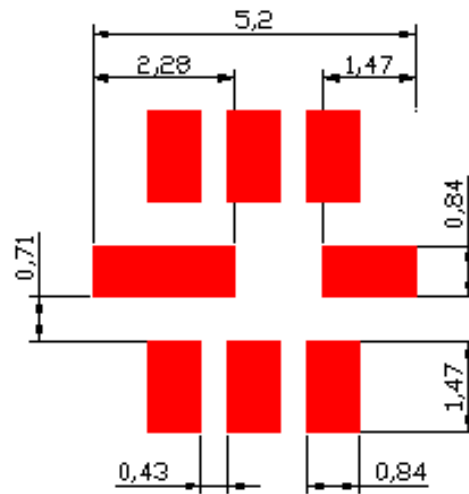
L1=220nH L2=220nH C1=18pF C2=1.5pF C3=1.5pF C4=15pF

E. FREQUENCY CHARACTERISTICS :



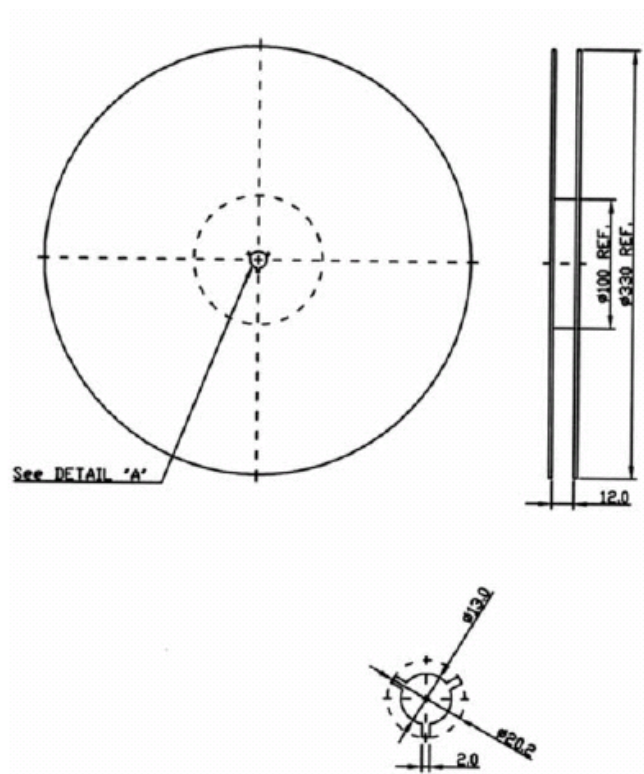


F. PCB FOOTPRINT:



G. PACKING:

1. REEL DIMENSION: (Please refer to FR-75D10 for packing quantity)



The graph displays the temperature of a substance over time. The y-axis represents Temperature in degrees Celsius (Deg C), ranging from 20 to 280. The x-axis represents Time in seconds (Sec), ranging from 0 to 360. The curve shows a heating phase from 0 to 220 seconds, reaching a maximum temperature of 260°C, followed by a cooling phase from 220 to 360 seconds, ending at 110°C.

Time (Sec)	Temp (Deg C)
0	25
20	28
40	145
60	150
80	160
100	155
120	170
140	180
160	200
180	220
200	250
220	260
240	250
260	180
280	145
300	150
320	135
340	120
360	110