



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: 465 MHz 20MHz BW SMD 5.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB0206B

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee

Approval by: _____ Francis Chen

Date: _____ 06 / 14 / 2012

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 465MHz 20MHz BW (SMD 5.0×5.0 mm)

MODEL NO.: TB0206B

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: 0℃ to 70℃
2. Storage temperature range: -40℃ to 85℃
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	465	-
Insertion Loss, IL	dB	-	12.9	14.5
Lower 1dB Bandedge	MHz	-	453.5	456.7
Upper 1dB Bandedge	MHz	473.3	475.6	-
Passband Ripple (456.7~473.3MHz)	dB	-	0.5	1.0
Group Delay Ripple (456.7~473.3MHz)	nsec	-	40	70
Input VSWR (456.7~473.3MHz)	-	-	1.5	2
Output VSWR (456.7~473.3MHz)	-	-	1.5	2
Attenuation:(Reference level from Min IL)				
10MHz ~405MHz	dB	45	52	-
405MHz ~ 440MHz	dB	38	44	-
490MHz ~ 510MHz	dB	38	45	-
510MHz ~ 580MHz	dB	45	54	-
Temperature Coefficient	ppm/℃	-	-23	-
Source Impedance	Ohm	-	200	-
Load Impedance	Ohm	-	200	-

C. Frequency Characteristics :

(1) Narrow band Response:(span 200MHz)

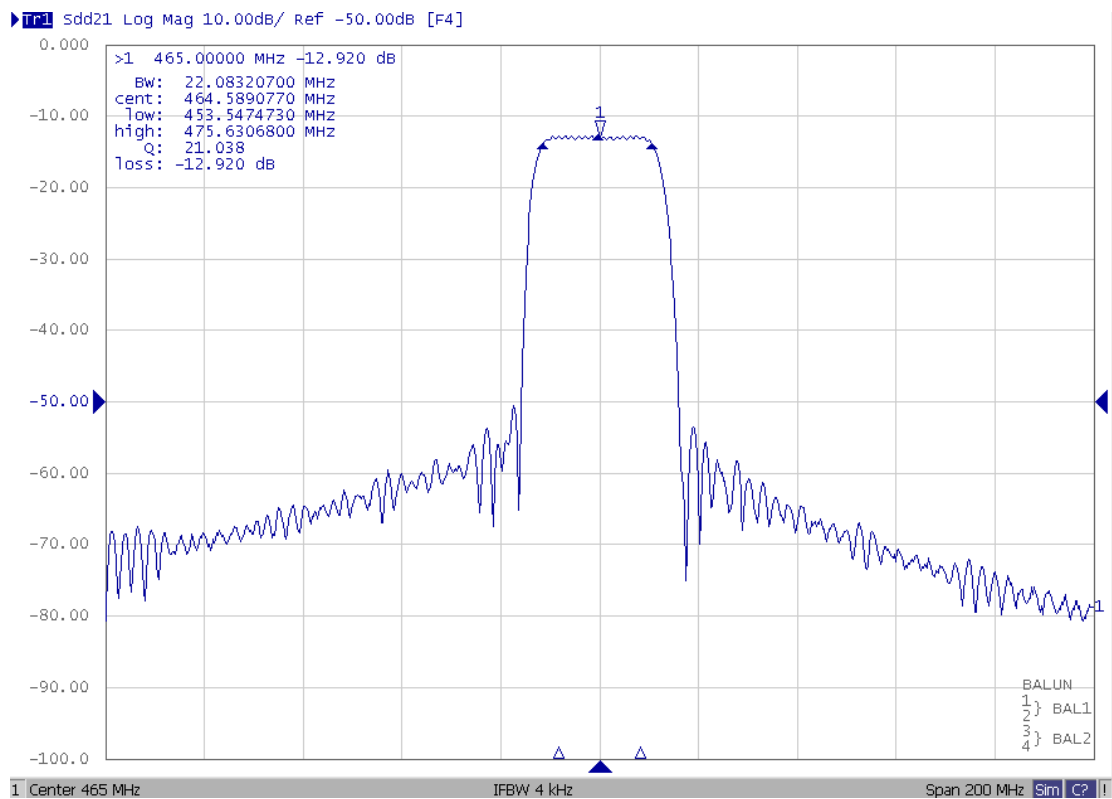


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

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

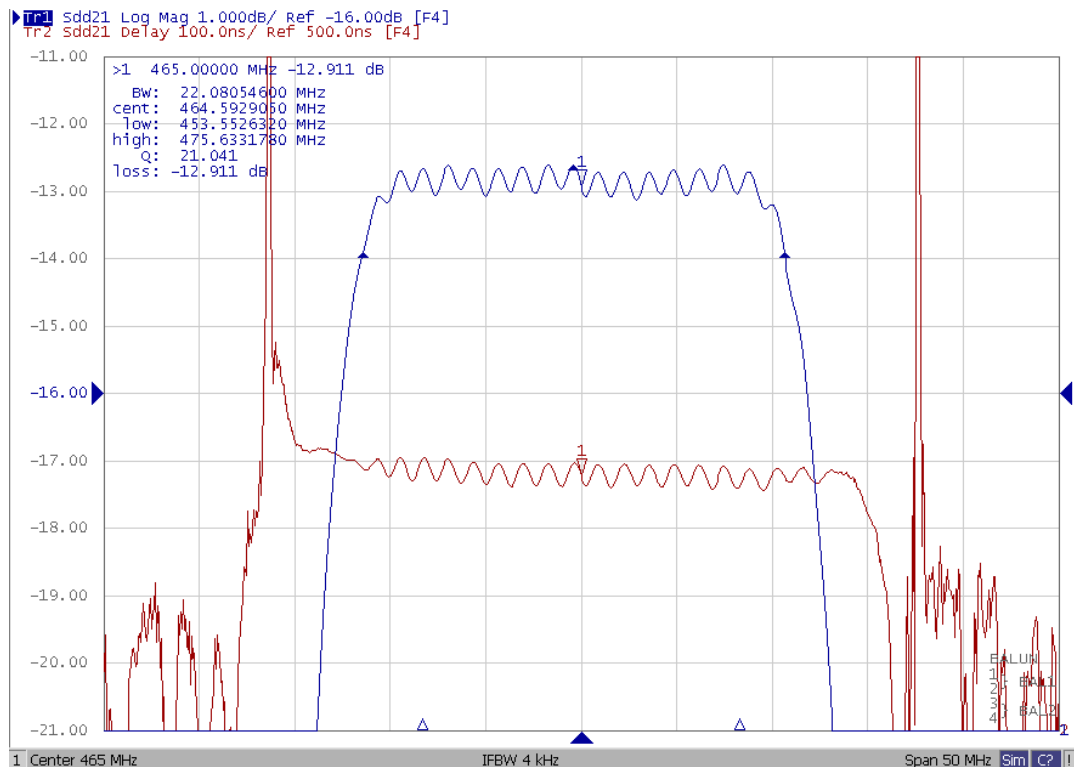
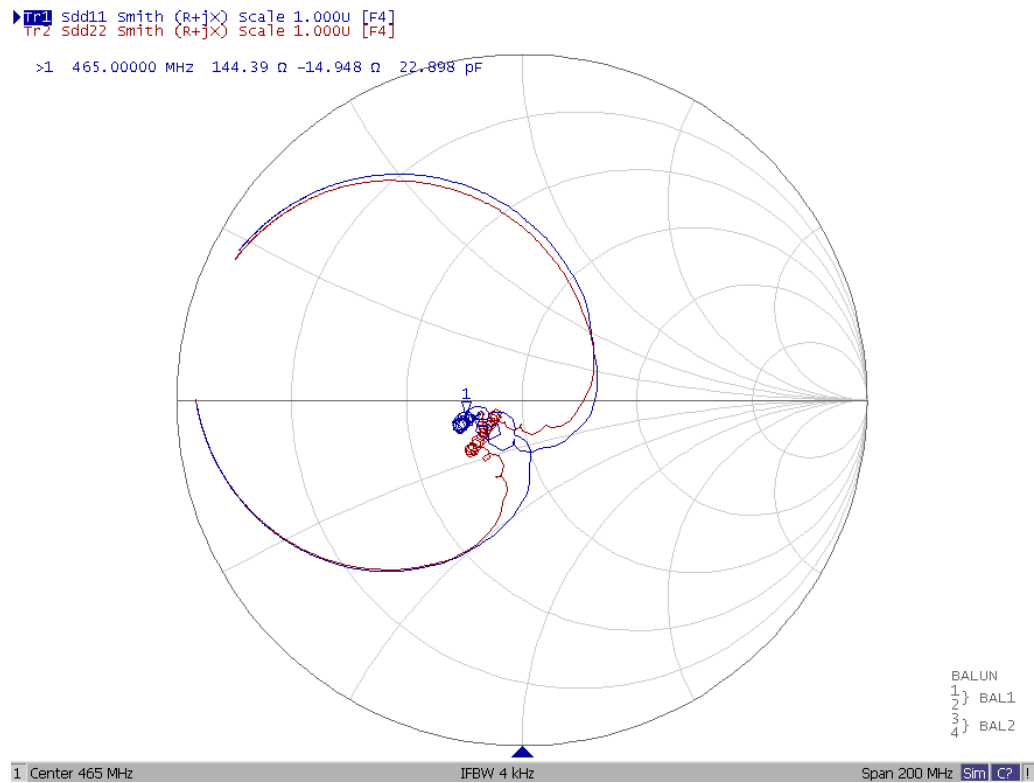


Fig2. Horizontal: 5MHz/Div Vertical: 1dB/Div

Vertical: 100ns/Div

(3) Smith Chart:



(4) Wide Band Response:

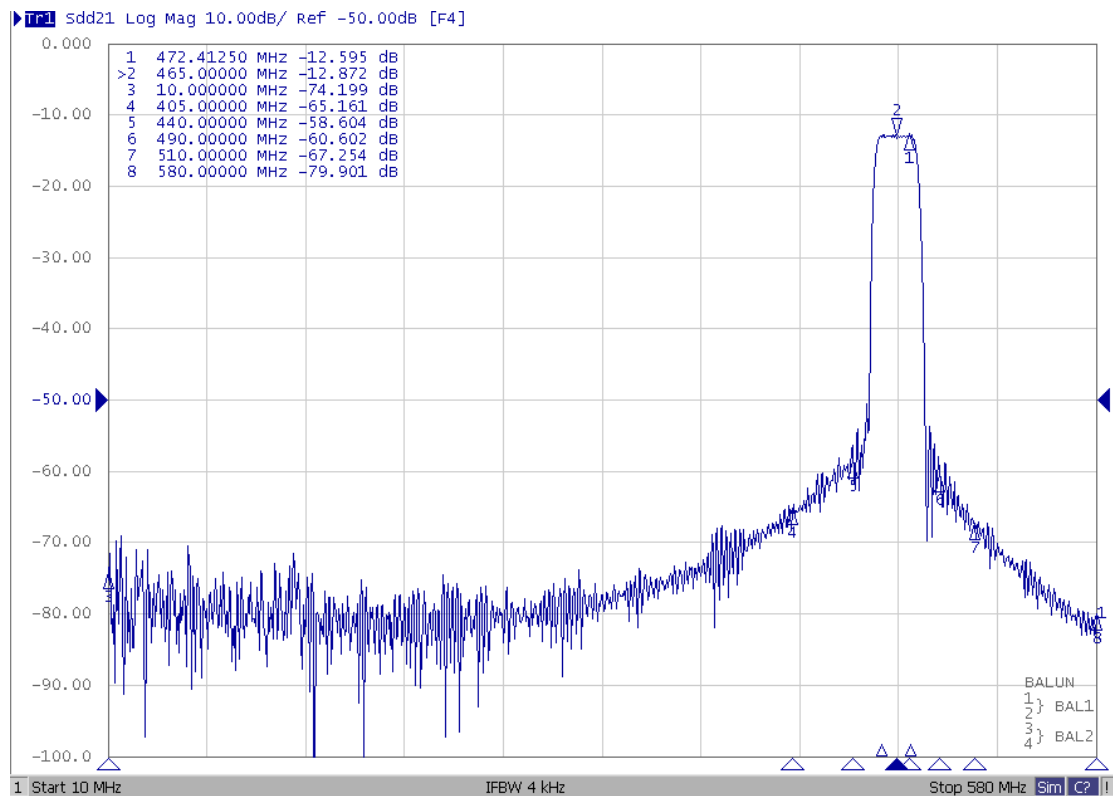
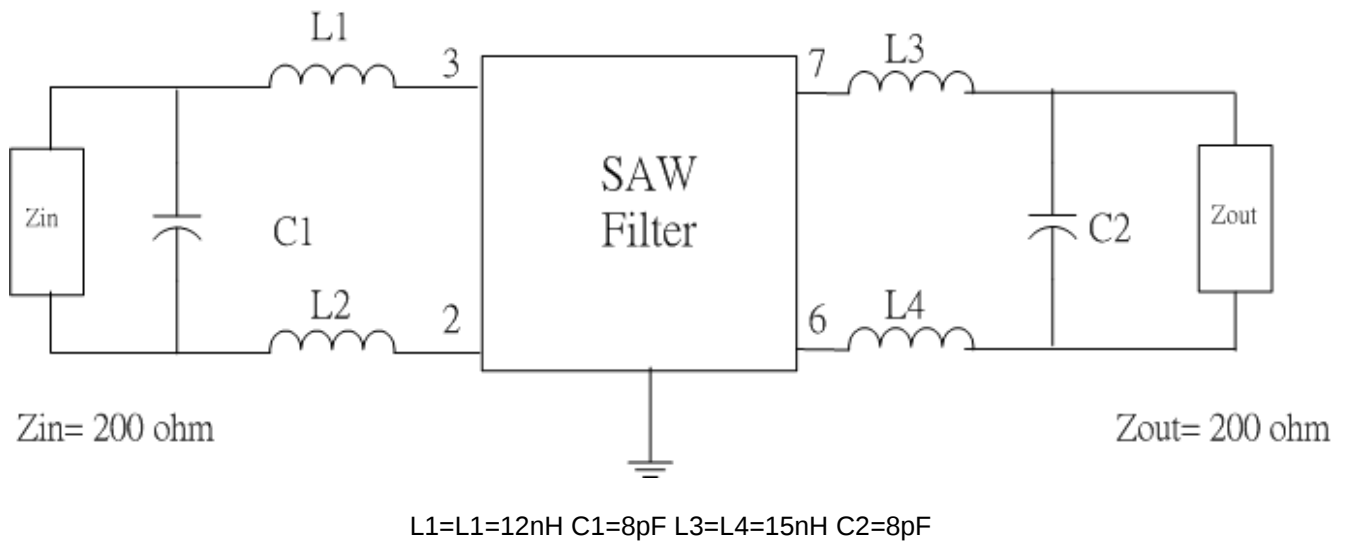
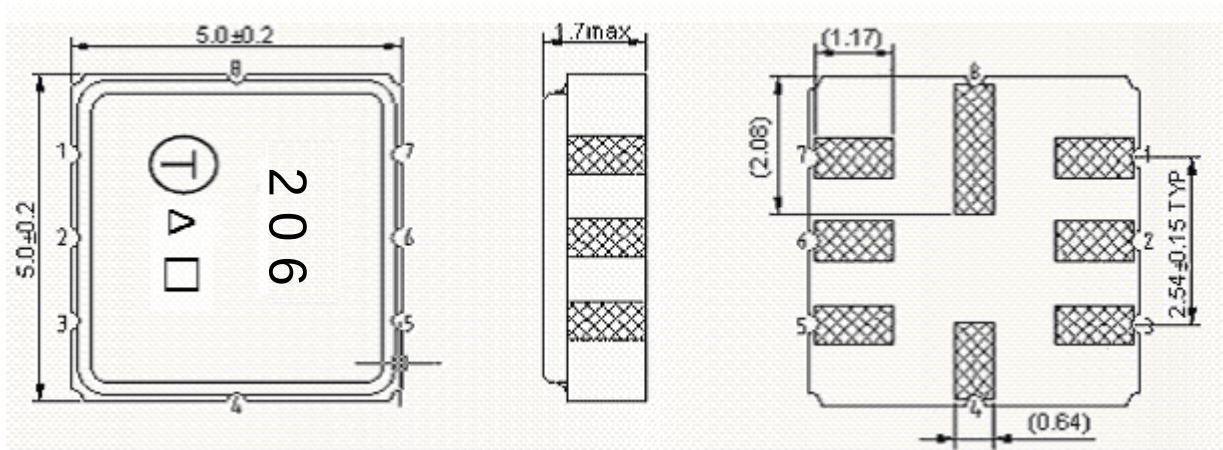


Fig2. Horizontal: 57MHz/Div Vertical: 10dB/Div

D. Matching Circuit:



E. Outline Drawing:



- #3 –RF input
- #2 –RF balance input or to be ground
- #7 –RF output
- #6 –RF balance output or to be ground
- #1,4,5,8 – Ground

□ : Week Code

Unit : mm

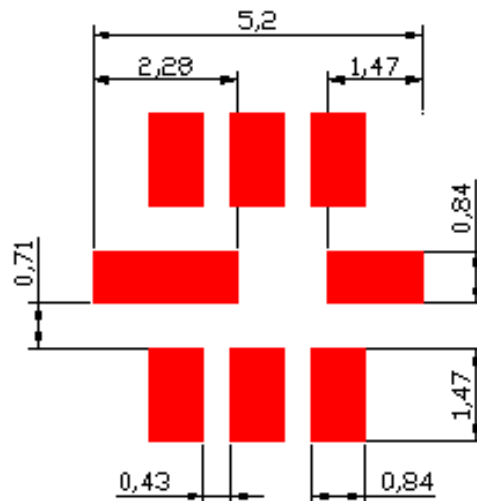
Product Code Table

Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

Week Code Table

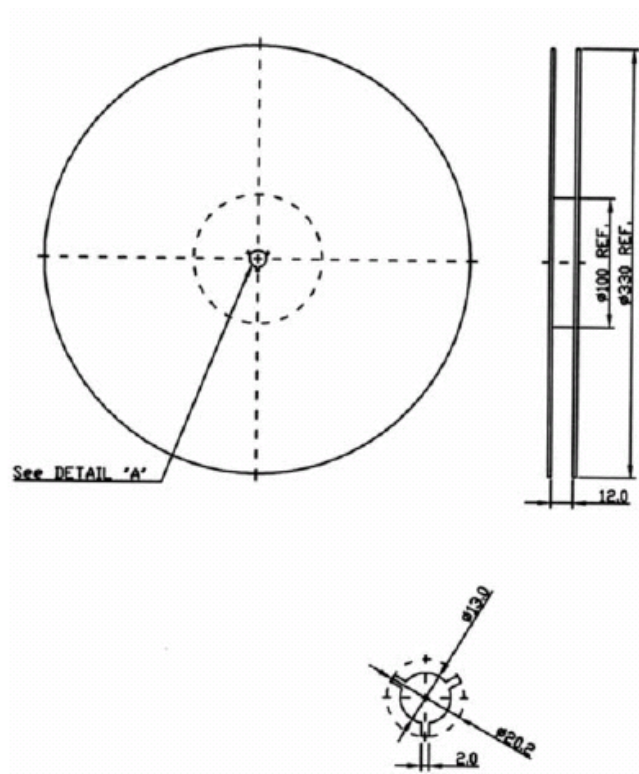
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	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:

1. REEL DIMENSION: (Reel count: 7"=1000)



Technical drawing of a 4-hole punch die. The drawing includes a side view (SECTION A-A) showing a profile with a 3-degree angle, a 2mm width, and a 0.3±0.05mm thickness. The main view shows a rectangular block with four circular holes, each with a diameter of 15.4±0.1mm. The holes are spaced 5.3mm apart, with a total width of 12.0±0.3mm. The block has a height of 17.5mm and a depth of 5.5±0.05mm. A section line A-A is shown at the bottom right, and an arrow indicates the 'Direction of feed'.

The graph displays the temperature profile over a 360-second period. The temperature begins at 25°C, remains relatively stable until 20 seconds, then rises sharply to 145°C by 40 seconds. It continues to rise with some fluctuations, reaching a peak of 260°C at 220 seconds. After the peak, the temperature drops sharply to 145°C by 280 seconds and then gradually decreases to 110°C by 360 seconds.

Time (Sec)	Temp (Deg C)
0	25
20	28
40	145
60	150
80	155
100	160
120	175
140	180
160	200
180	220
200	250
220	260
240	250
260	175
280	145
300	148
320	135
340	120
360	110