



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet


Product Name: 745 MHz 66MHz BW SMD 5.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1115A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Bob Chau 

Date: _____ 04 / 09 / 2013

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 745MHz 66MHz BW (SMD 5.0x5.0 mm)

MODEL NO.: TB1115A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 60°C
2. Storage temperature range: -40°C to 85°C
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, Fc	MHz	-	745	-
Insertion Loss, IL	dB	-	14.8	15.5
-1dB bandwidth	MHz	66.0	74.5	-
Passband Ripple Fc+/- 33MHz	dB	-	0.7	1.2
Group Delay Ripple Fc+/- 33MHz	ns	-	40	50
Absolute Group Delay at Fc	ns	-	670	-
Attenuation:(Reference level from Min IL)				
10MHz ~ 604MHz	dB	40	55	-
604MHz ~ 676MHz	dB	40	50	-
676MHz ~ 686MHz	dB	20	50	-
686MHz ~ 698MHz	dB	15	38	-
814MHz ~ 879MHz	dB	33	45	-
879MHz ~ 1089MHz	dB	40	50	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Narrow band Response:(span 655MHz)

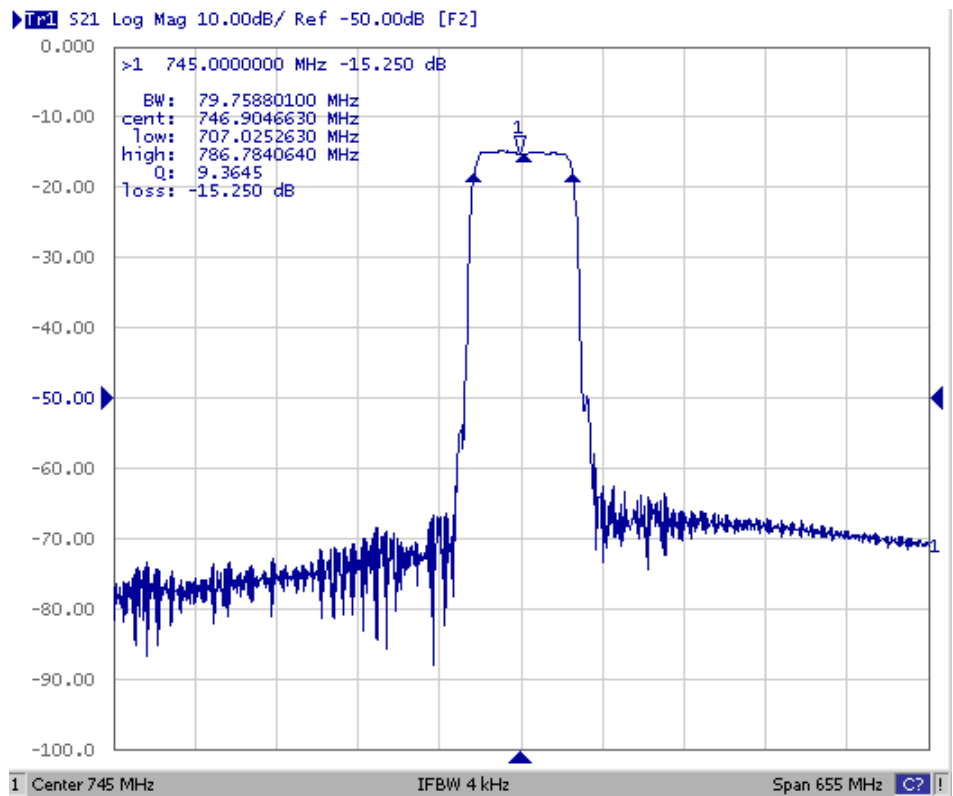


Fig1. Horizontal: 65.5MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response

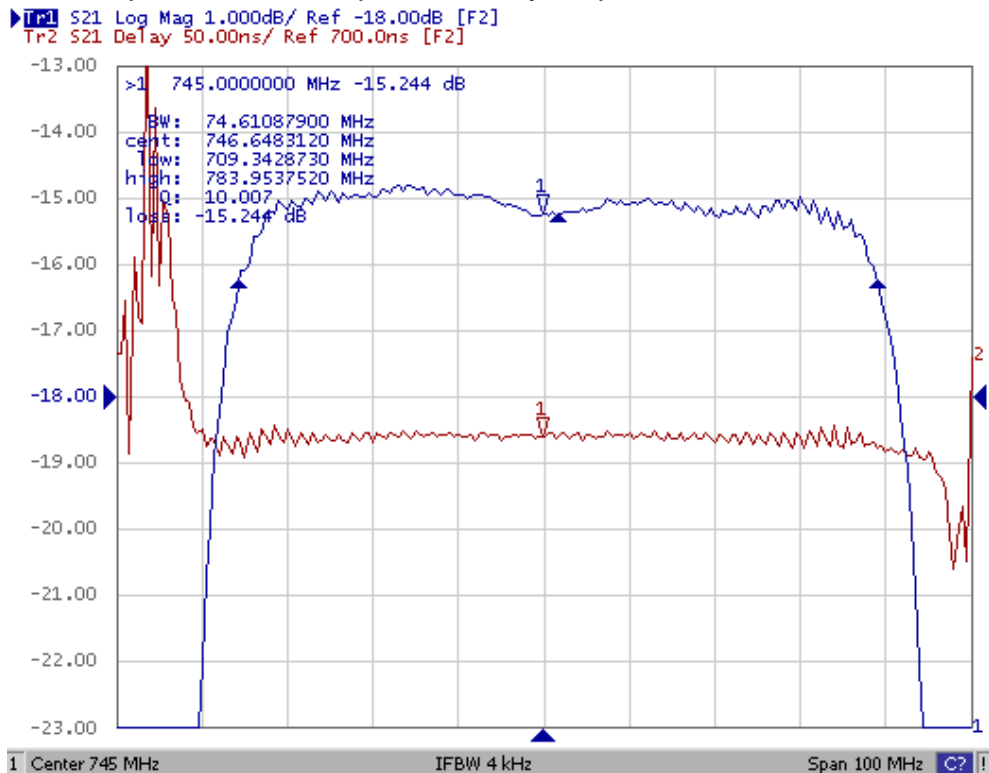
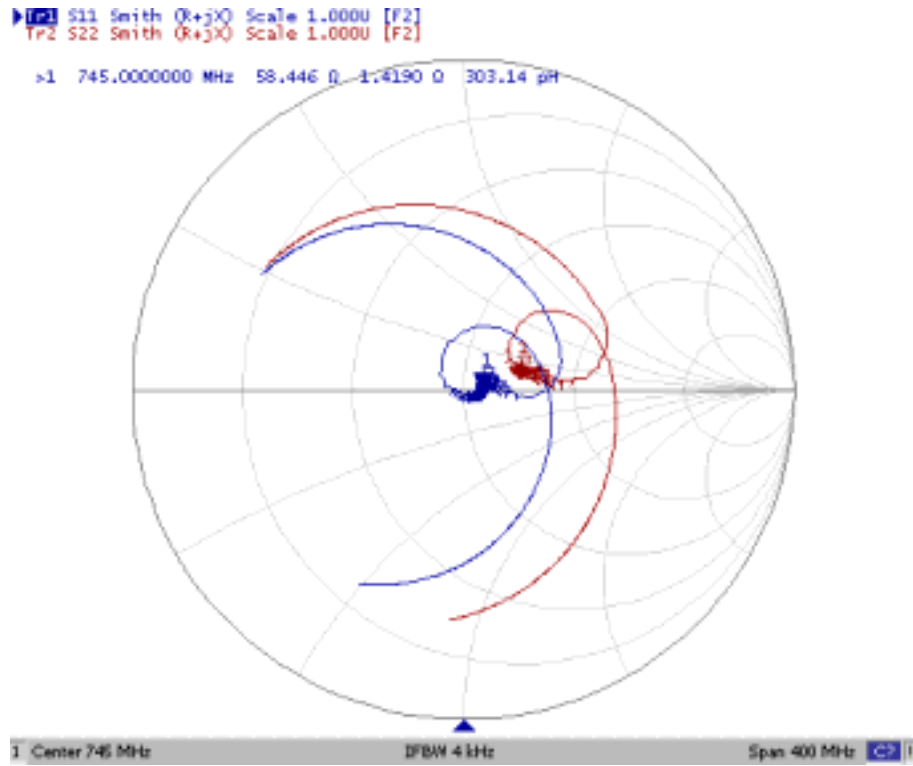


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div
 Vertical: 50ns/Div

(3) Smith Chart



(4) Wide band Response:(span 1200MHz)

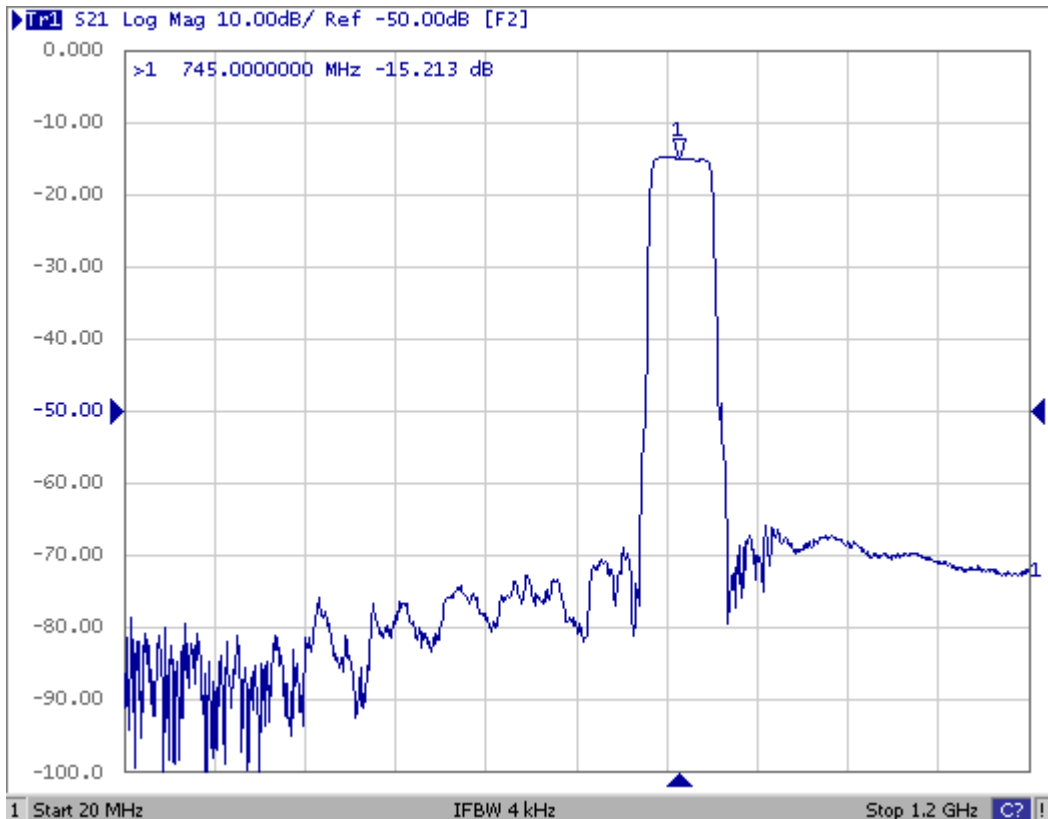
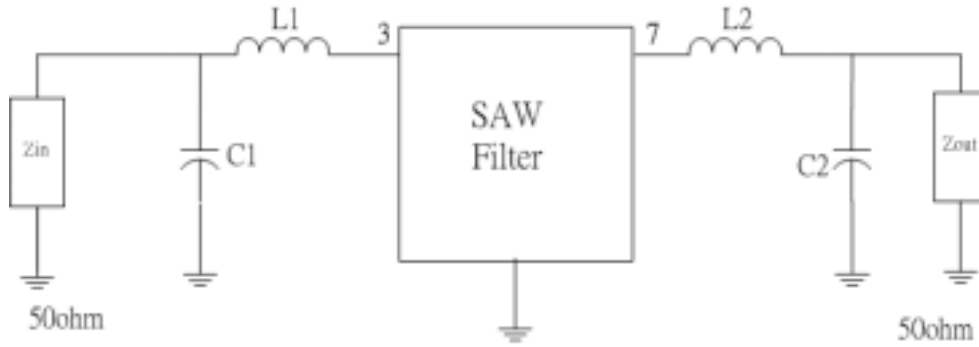


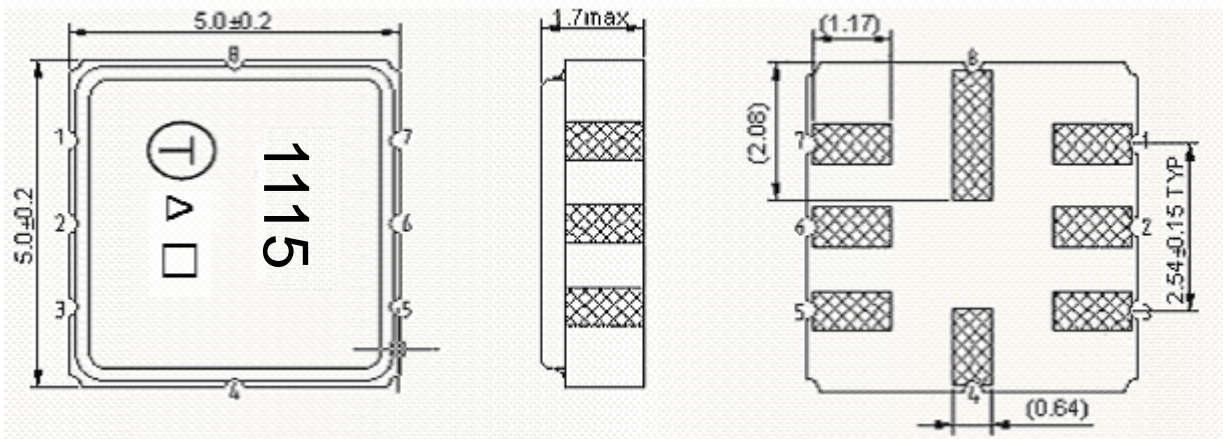
Fig4. Horizontal: 120MHz/Div Vertical: 10dB/Div

D. Matching Circuit:



L1=3nH C1=4.7pF L2=5.6nH C2=3.5pF

E. Outline Drawing:



- #3 –Input
- #2 –Input ground
- #7 – Output
- #6 – Output ground
- #1,4,5,8 – Ground

: Week Code

Unit : mm

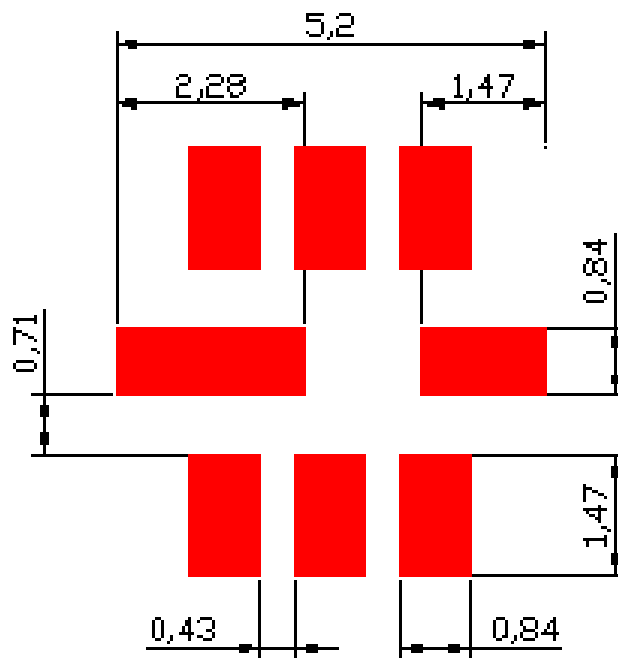
: Product / Year Code

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

Week Code Table

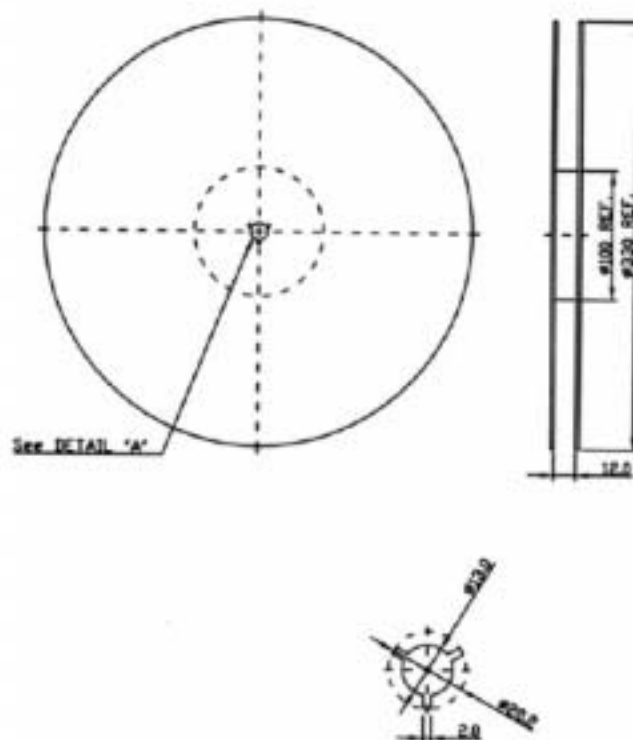
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A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

F. PCB Footprint:

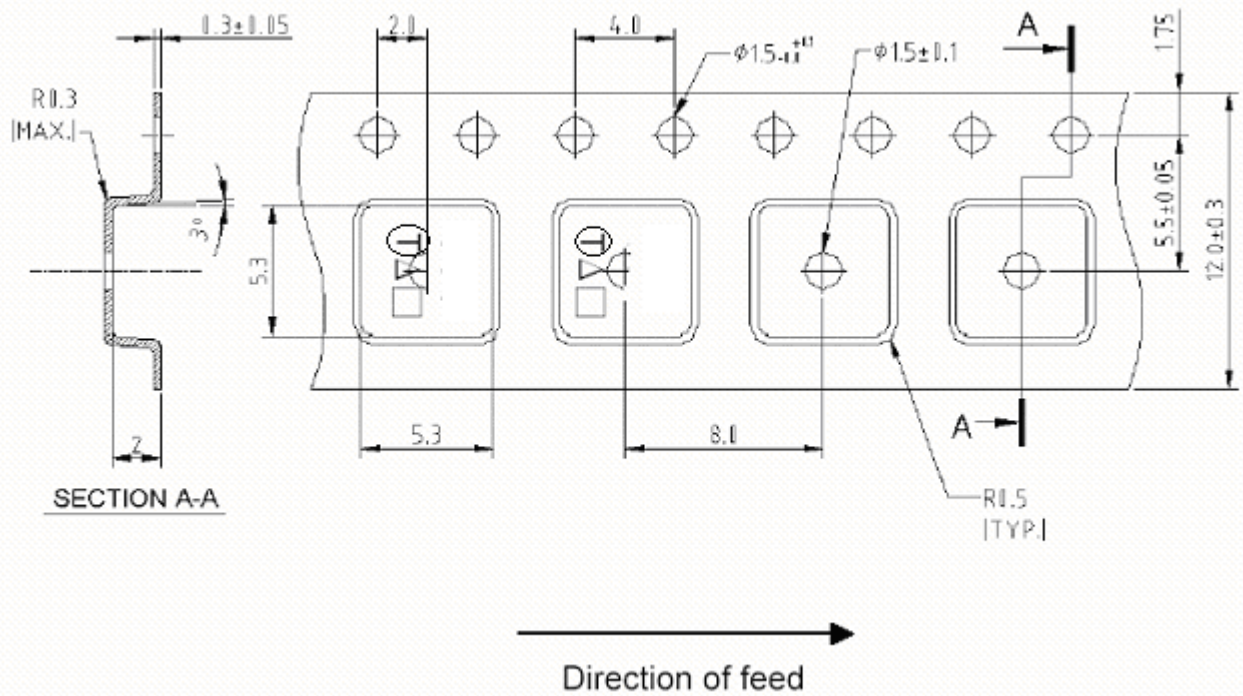


G. PACKING:

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



2. TAPE DIMENSION:



H. RECOMMENDED REFLOW PROFILE:

