



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.: TB1029A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee

Approval by: _____ Francis Chen

Date: _____ 10 / 06 / 2011

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 5.0×5.0 mm)

MODEL NO.: TB1029A

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, F_c	MHz	-	745	-
Insertion Loss, IL	dB	-	14	15.5
-1dB bandwidth	MHz	66	76	-
Passband Ripple F_c±33MHz	dB	-	0.6	1.0
Attenuation:(Reference level from Min IL)				
10MHz ~ 604MHz	dB	40	60	-
604MHz ~ 676MHz	dB	40	50	-
676MHz ~ 686MHz	dB	20	50	-
686MHz ~ 698MHz	dB	15	36	-
814MHz ~ 879MHz	dB	33	46	-
879MHz ~ 1089MHz	dB	40	46	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Narrow band Response:(span 400MHz)

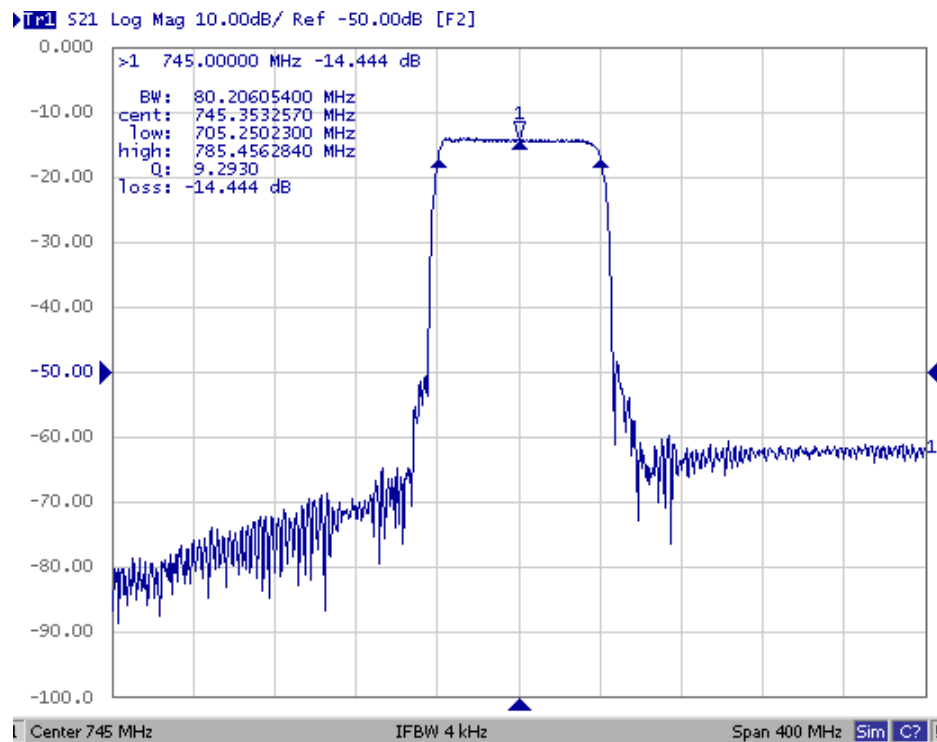


Fig1. Horizontal: 40MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response

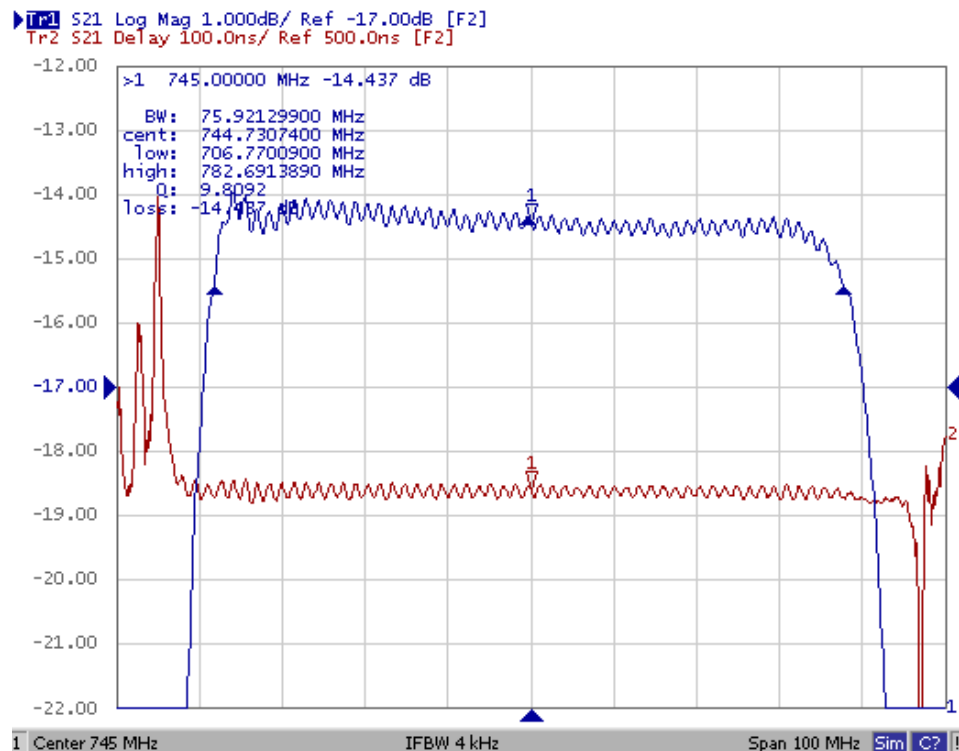


Fig2. Horizontal: 16MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Wide band Response:(span 1000MHz)

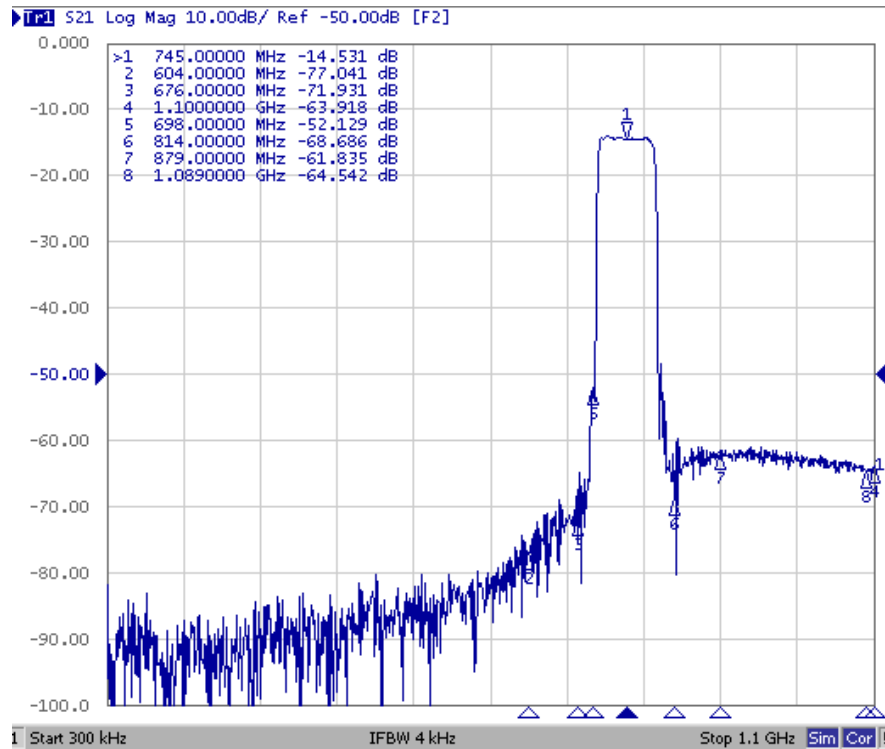
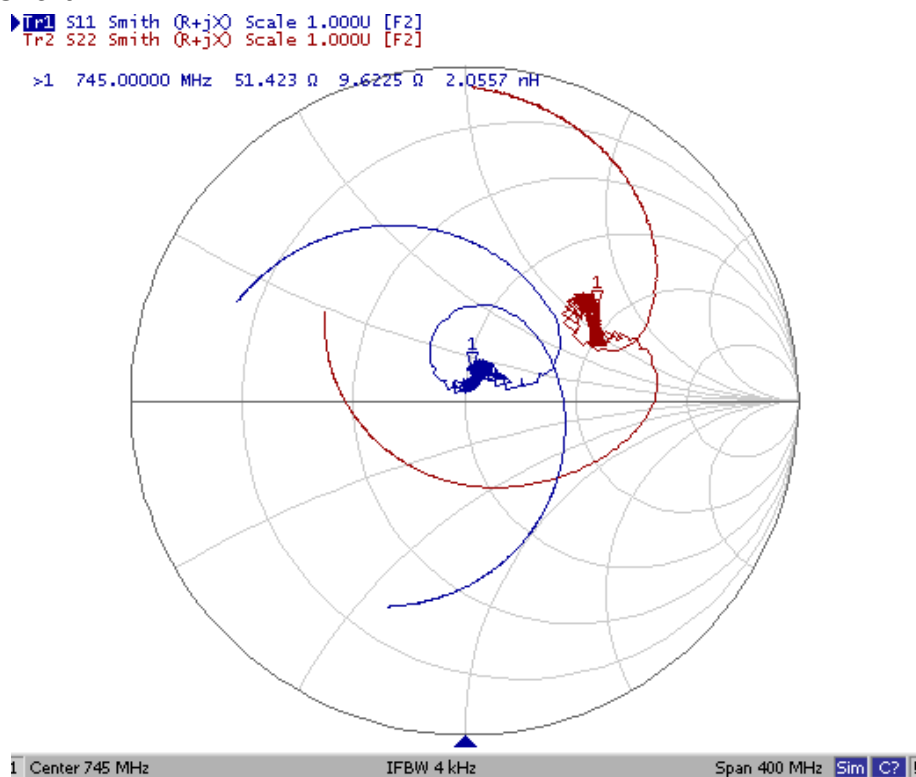
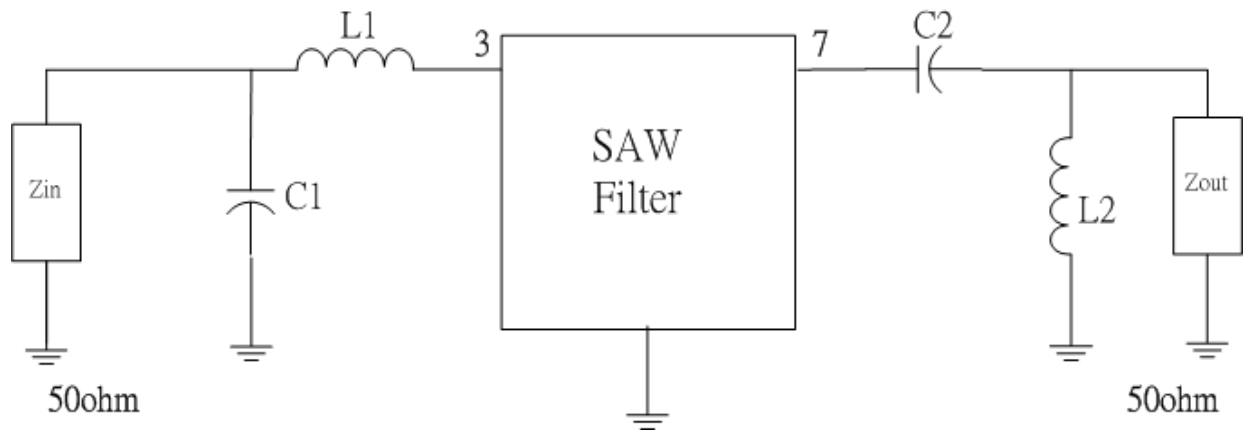


Fig3. Horizontal: 110MHz/Div Vertical: 10dB/Div

(4) Smith Chart

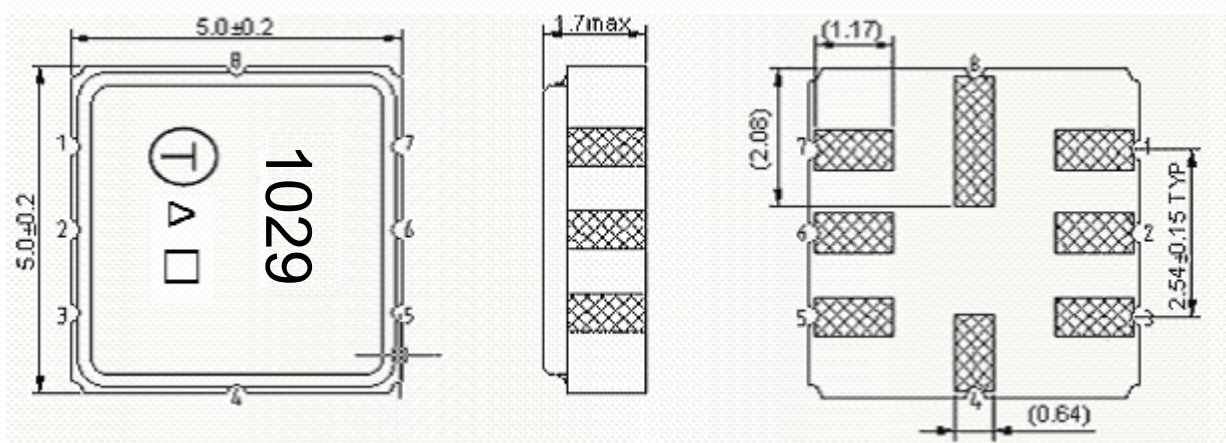


D. Matching Circuit:



$$L1=3nH \quad L2=5.6nH \quad C1=4.7pF \quad C2=5.6pF$$

E. Outline Drawing:



#3 –Input

#2 –Input ground

#7 – Output

#6 – Output ground

#1,4,5,8 – Ground

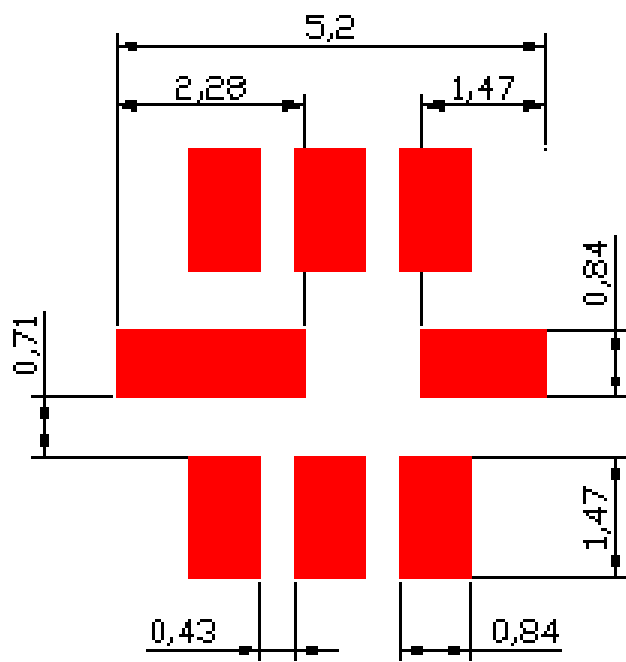
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

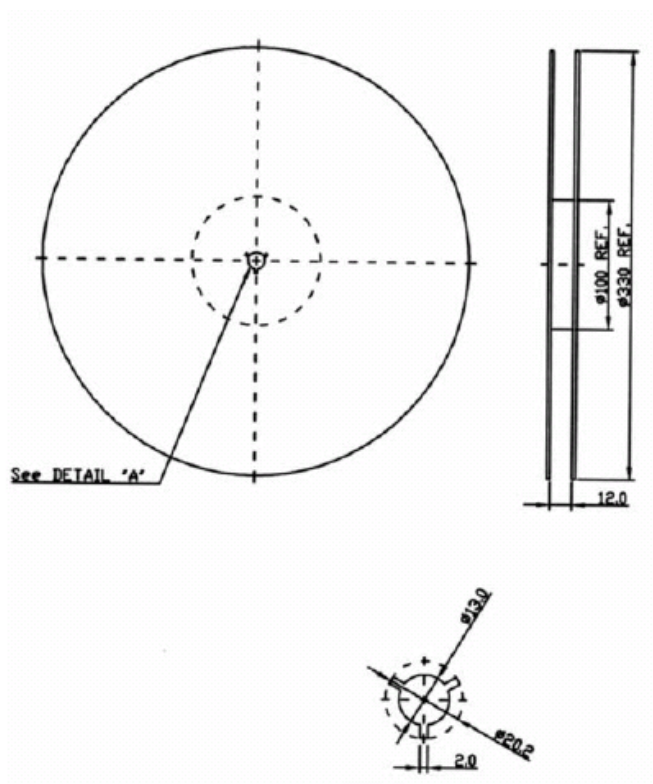
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:

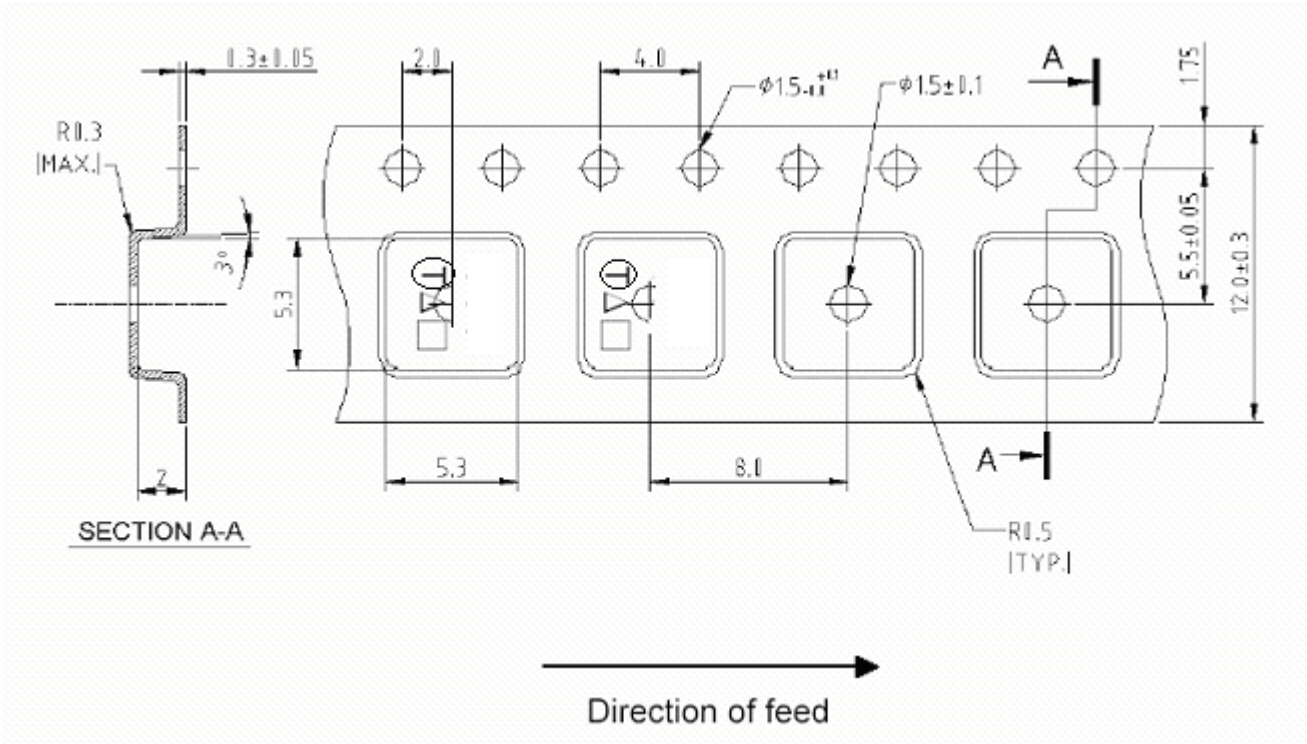


G. PACKING:

1. REEL DIMENSION:



2. TAPE DIMENSION:



H. RECOMMENDED REFLOW PROFILE:

