Taoyuan, 324, Taiwan, R.O.C. TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

O IVIDZ O.9IVIDZ DVV	SIVID 13.3 X 6.5 MM SAW IF F
045B	
.:	
required	
	Kazuma Jee
Andy Yu	Andy In
08/ 02 / 2018	
	O45B : required Kazuma Lee Andy Yu

- 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.



TAI-SAW TECHNOLOGY CO., LTD.

No.3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, Taiwan, R.O.C. TEL: 886-3-4690038 FAX: 886-3-4697532 E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

SAW Filter 37.8MHz 5.9MHz BW (SMD 13.3×6.5 mm)

MODEL NO.: TB1045B REV. NO.1

A. MAXIMUM RATING:

Operating temperature range: -40 °C to 85 °C
 Storage temperature range: -40 °C to 85 °C

3. Input Power Level : 10 dBm4. Maximum DC Voltage : 10V

5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant Lead free Lead-free soldering

Electrostatic Sensitive Device

B. CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.			
Center frequency, Fc	MHz	-	37.8	-			
Insertion Loss, IL	dB	-	18.5	20.2			
1dB Band Width	MHz	-	5.8	-			
40dB Band Width	MHz	-	9.3	10.5			
Amplitude Ripple Fc+/-2.4MHz	dB	-	0.6	1.2			
Attenuation (Reference level from typical Insertion loss)							
Fc+/-10.5MHz ~ Fc+/-14MHz	dB	40	45				
Fc+/-14MHz ~ Fc+/-20MHz	dB	45	50				
Temperature Coefficient	ppm/°C		-94	-			
Source Impedance	Ohm	-	50	-			
Load Impedance	Ohm	-	50	-			

C. FREQUENCY CHARACTERISTICS:

(1) Wide band Response:(span 60MHz)

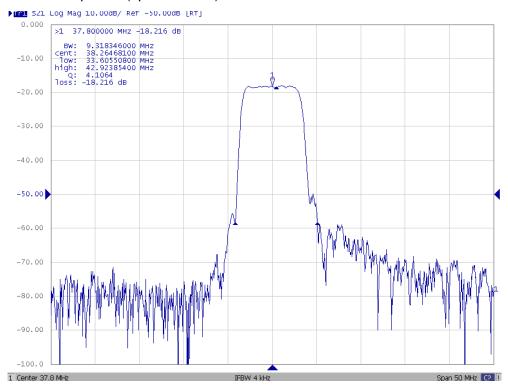


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

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

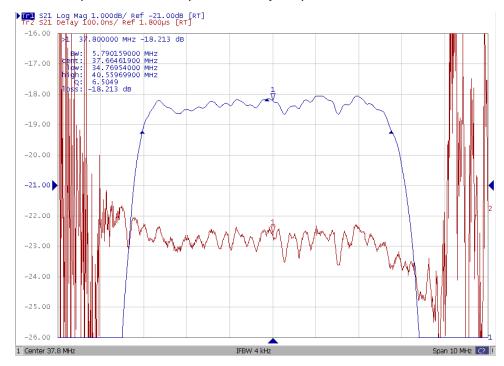
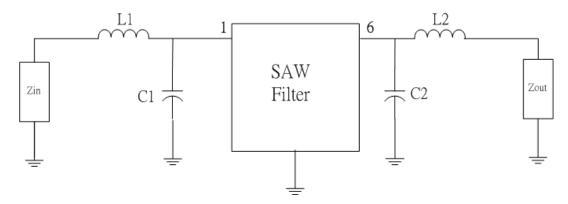


Fig2. Horizontal: 1.0MHz/Div Vertical: 1dB/Div Vertical: 100ns/Div

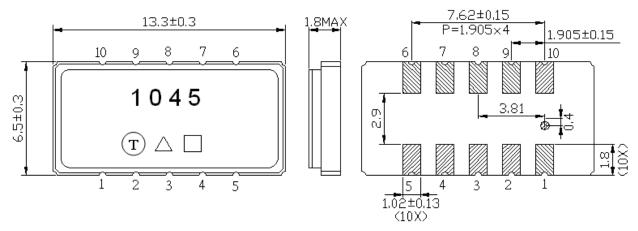
TST DCC
Release document

D. MATCHING CIRCUIT:



L1=680nH L2=82nH C1=4.7pF C2=4.7pF

E. OUTLINE DRAWING:



#1: Input

#10: Input Ground

#6: Output

#5: Output Ground

#2, 3, 4, 7, 8, 9: Ground

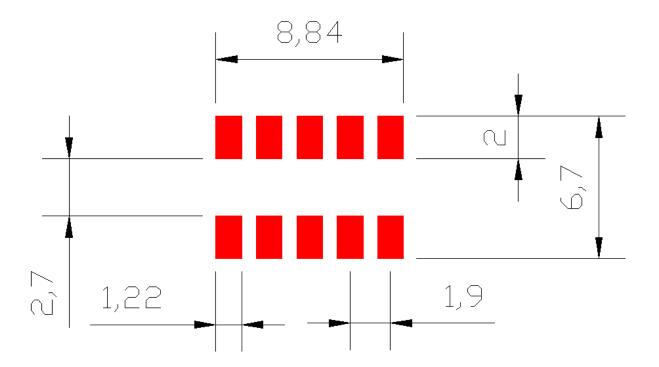
: Week Code

Unit: mm

 \triangle : Product / Year Code

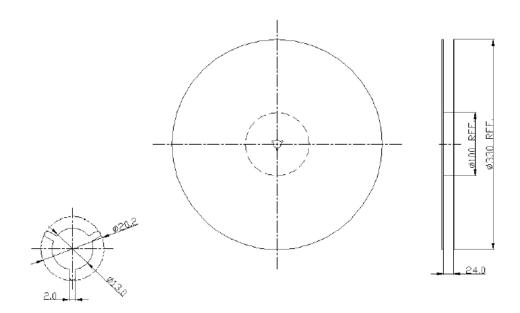
Year	2009	2010	2011	2012
	2013	2014	2015	2016
Product Code	В	b	<u>B</u>	<u>b</u>

F. PCB FOOTPRINT:

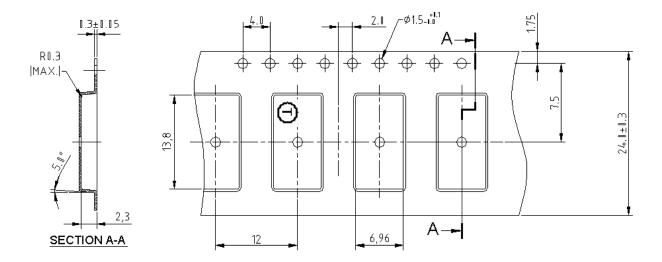


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at $150\sim180^{\circ}$ °C for $60\sim90$ 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°C+0/-5°C peak (20~40sec).
- 4. Time: 2 times.

