



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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

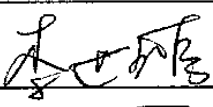
Issued Date:

Product Name: SAW IF Filter 857 MHz (package 5.0mm x 5.0 mm)

TST Parts No.: TB0904A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 10 / 11 / 2010

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 857MHz 66MHz BW (SMD 5.0×5.0 mm)

MODEL NO.: TB0904A

REV. NO.4

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 75°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

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	857	-
Insertion Loss, IL	dB	-	13.6	15.0
-1dB bandwidth	MHz	66	76	-
Passband Ripple F_c±30MHz	dB	-	0.5	1.0
Attenuation:(Reference level from Min IL)				
10MHz ~ 715MHz	dB	40	50	-
715MHz ~ 788MHz	dB	40	47	-
788MHz ~ 798MHz	dB	20	38	-
798MHz ~ 809MHz	dB	15	38	-
925MHz ~ 990MHz	dB	33	37	-
990MHz ~ 1200MHz	dB	40	44	-
Temperature Coefficient	ppm/°C	-	-94	--
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Wide band Response:(span 300MHz)

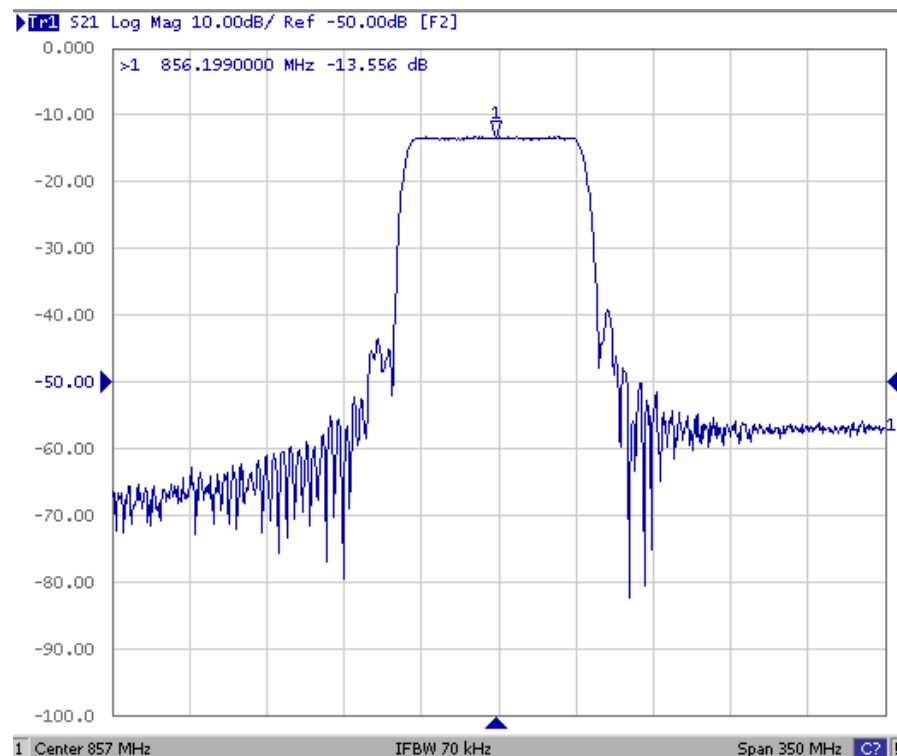


Fig1. Horizontal: 30MHz/Div Vertical: 10dB/Div

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

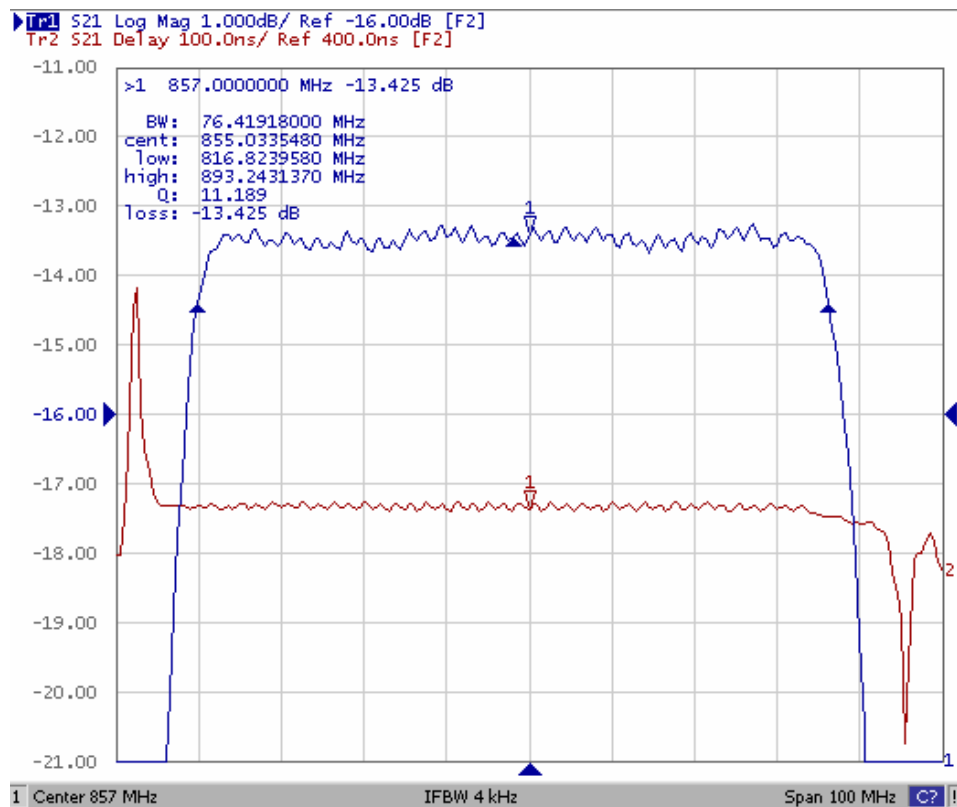


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Wide band Response:

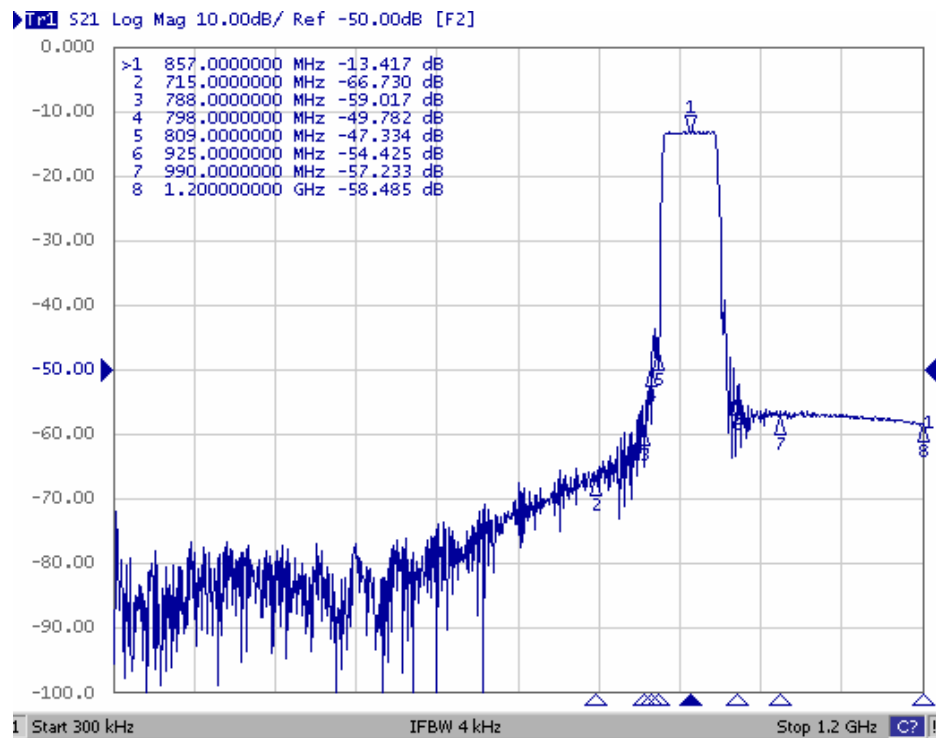
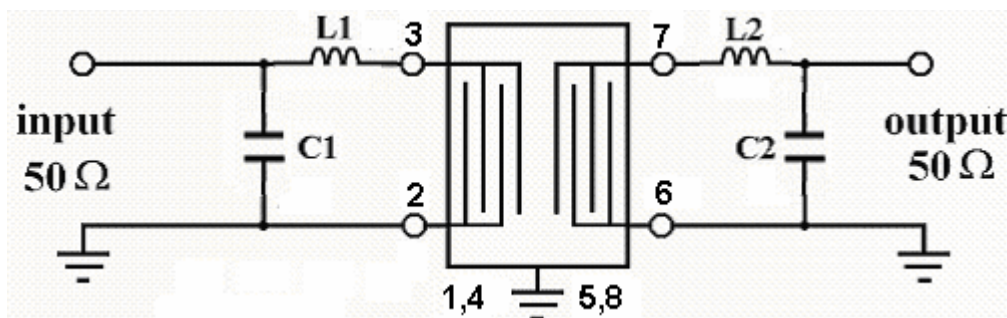


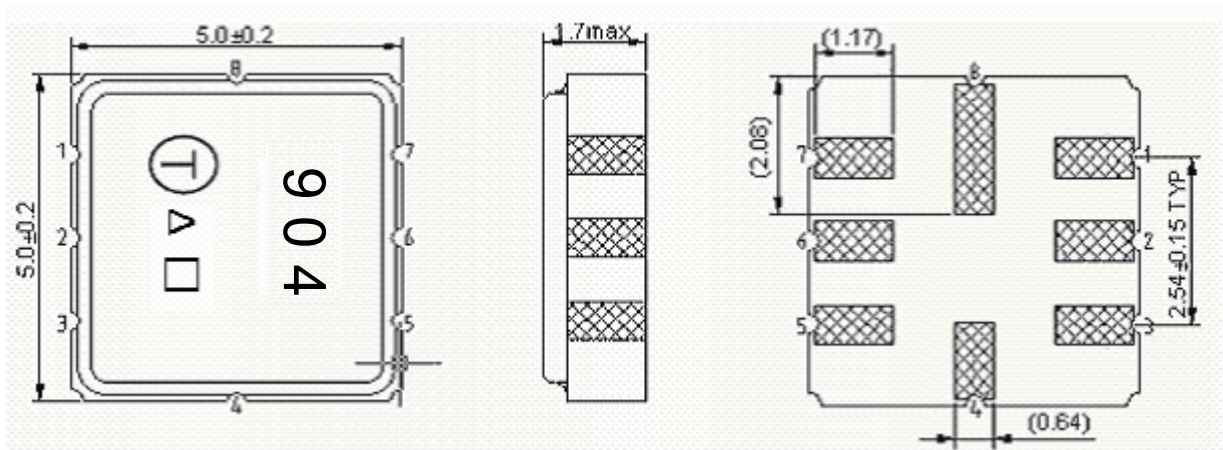
Fig3. Horizontal: 100MHz/Div Vertical: 10dB/Div

D. Matching Circuit:



$$L1 = 3 \text{ nH}, C1 = 3.5 \text{ pF}, L2 = 5.6 \text{ nH}, C2 = 4 \text{ pF}$$

E. Outline Drawing:



#3 –Input

#2 –Input ground

#7 – Output

#6 – Output ground

#1,4,5,8 – Ground

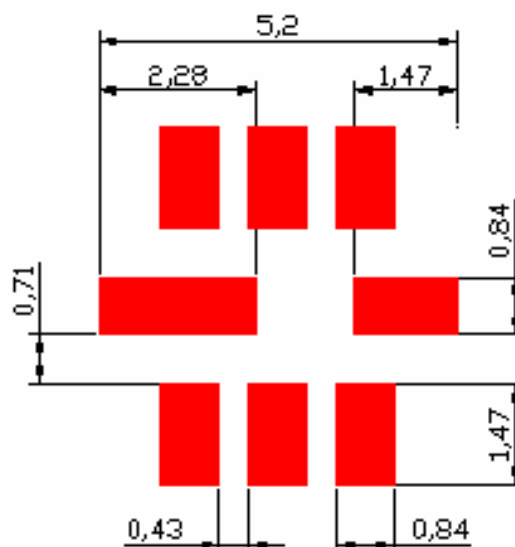
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

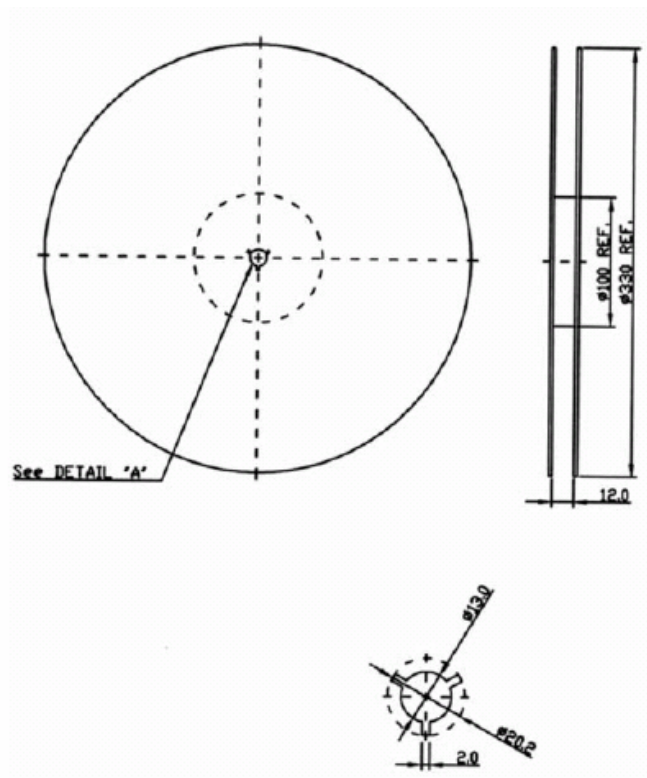
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:

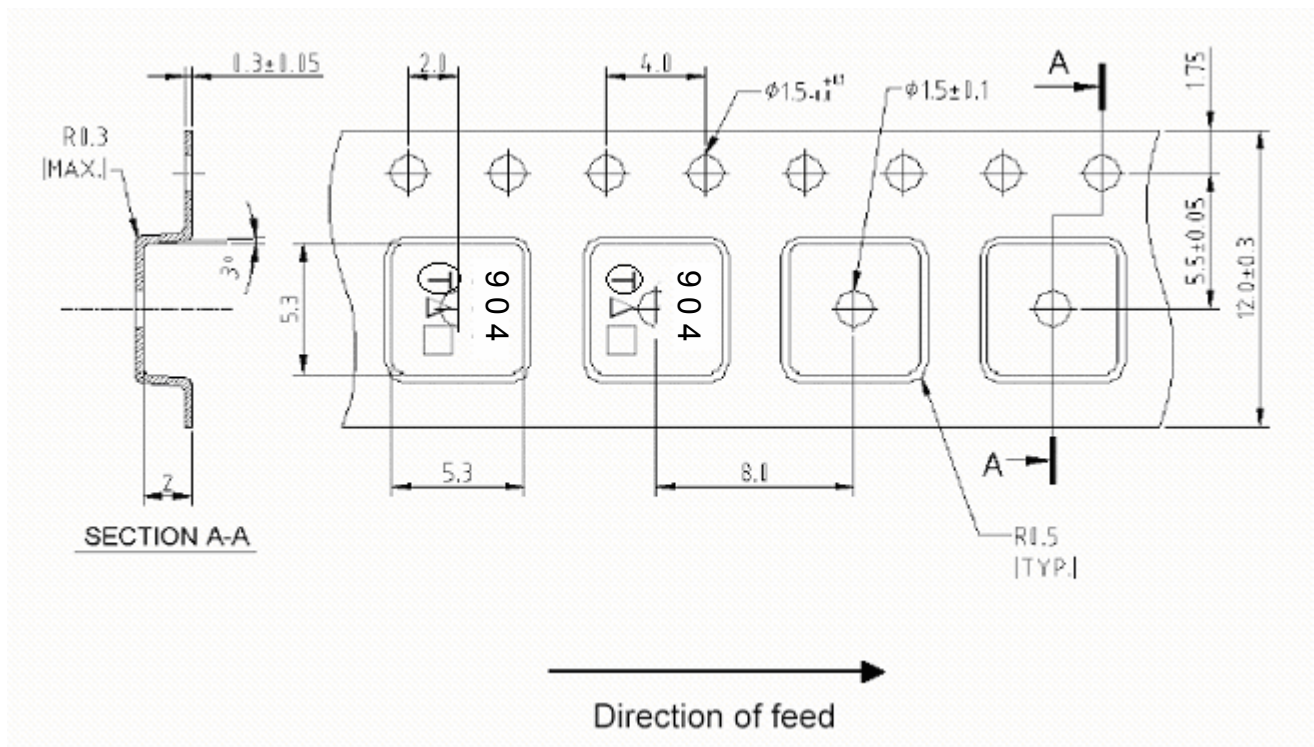


G. PACKING:

1. REEL DIMENSION:



2. TAPE DIMENSION:



H. RECOMMENDED REFLOW PROFILE:

