



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specification Approval Sheet

Product Name: SAW Filter 434.1 MHz 12MHz BW SMD 3.8X3.8 mm

TST Parts No.: TA0870A

Customer Parts No.: _____

Customer signature required

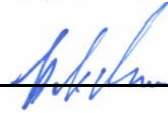
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 03,25, 2015

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 434.1 MHz

MODEL NO.:TA0870A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -30°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

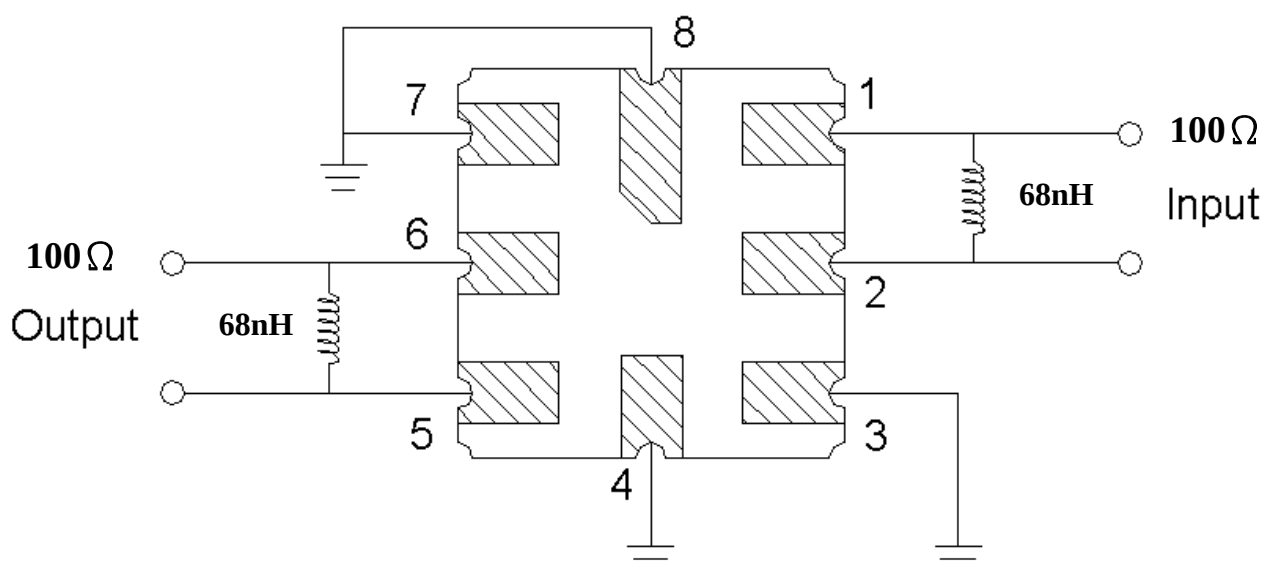
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential) : $Z_s = 100 \Omega // 68\text{nH}$

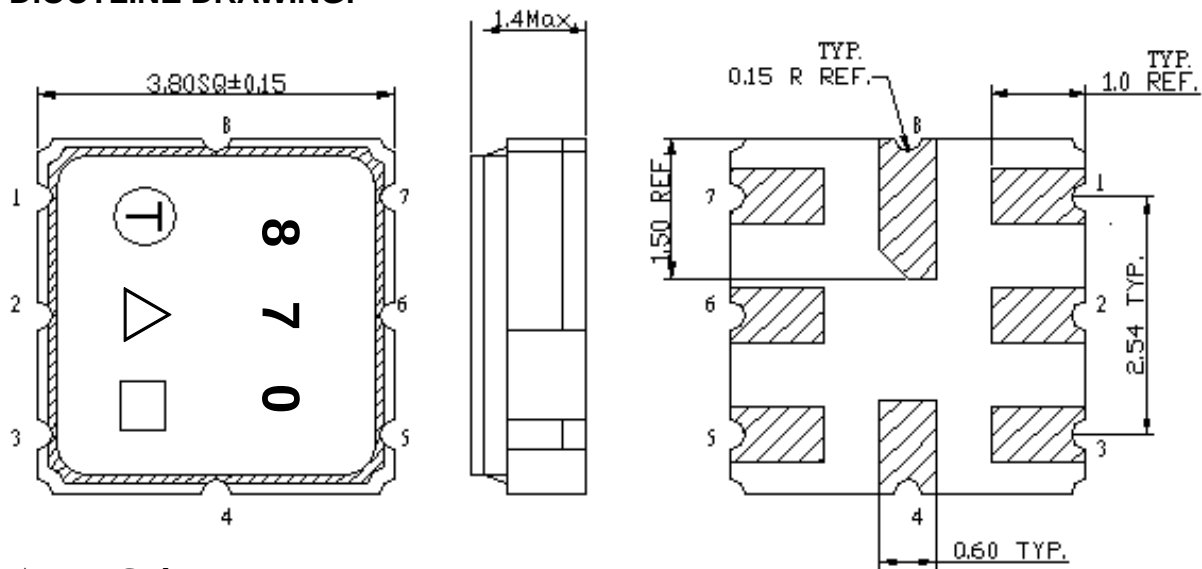
Terminating load impedance (differential) : $Z_L = 100 \Omega // 68\text{nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	434.1	-	-
Min. Insertion Loss	dB	-	1.6	3	-
Amplitude ripple (428.1 MHz ~ 440.1 MHz)	dB	-	0.8	2	-
I/O Return Loss (428.1 MHz ~ 440.1 MHz)	dB	8	12	-	-
Group Delay Variation (428.1 MHz ~ 440.1 MHz)	dB	-	25	70	-
Attenuation (reference to 0 dB)					
10 ~ 412.4 MHz	dB	30	45	-	-
455.8 ~ 680 MHz	dB	25	31	-	-

C. MEASUREMENT CIRCUIT:



D.OUTLINE DRAWING:



△:Year Code

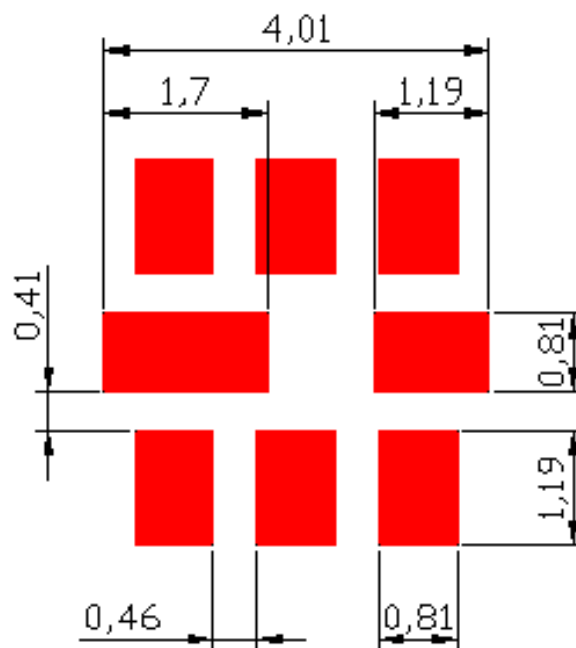
△ Product Year Code

Year	2013	2014
	2015	2016
	2017	2018
	2019	2020
Product Code	A	a

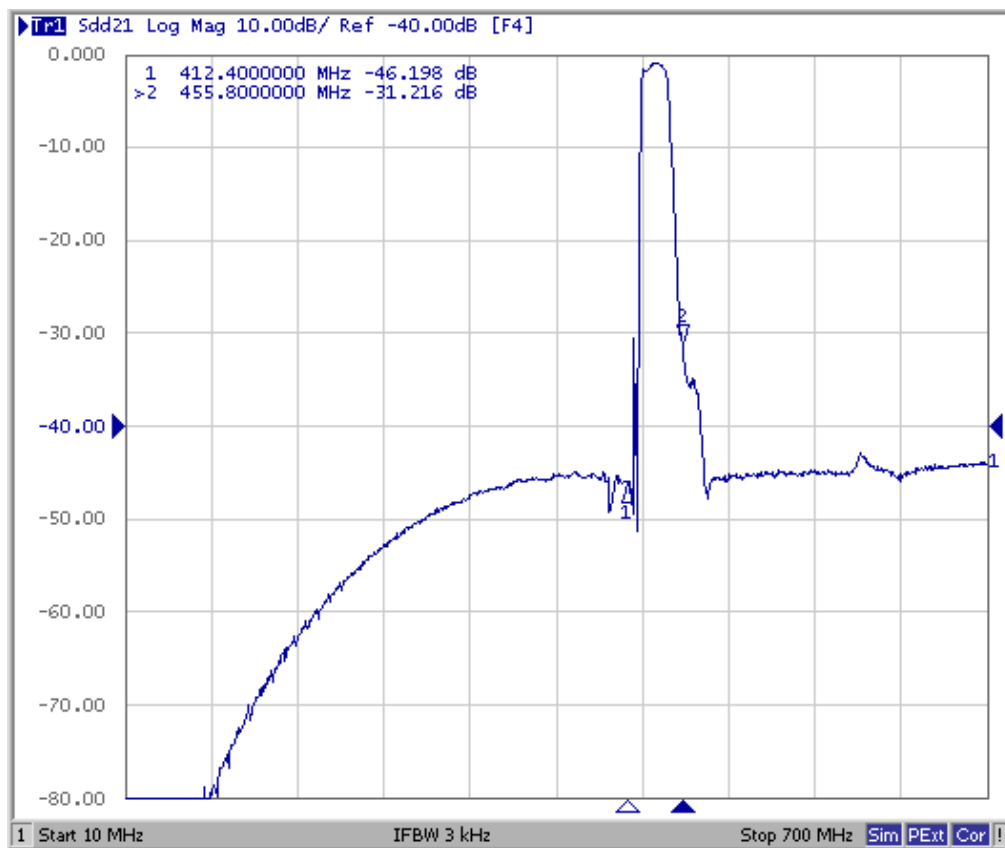
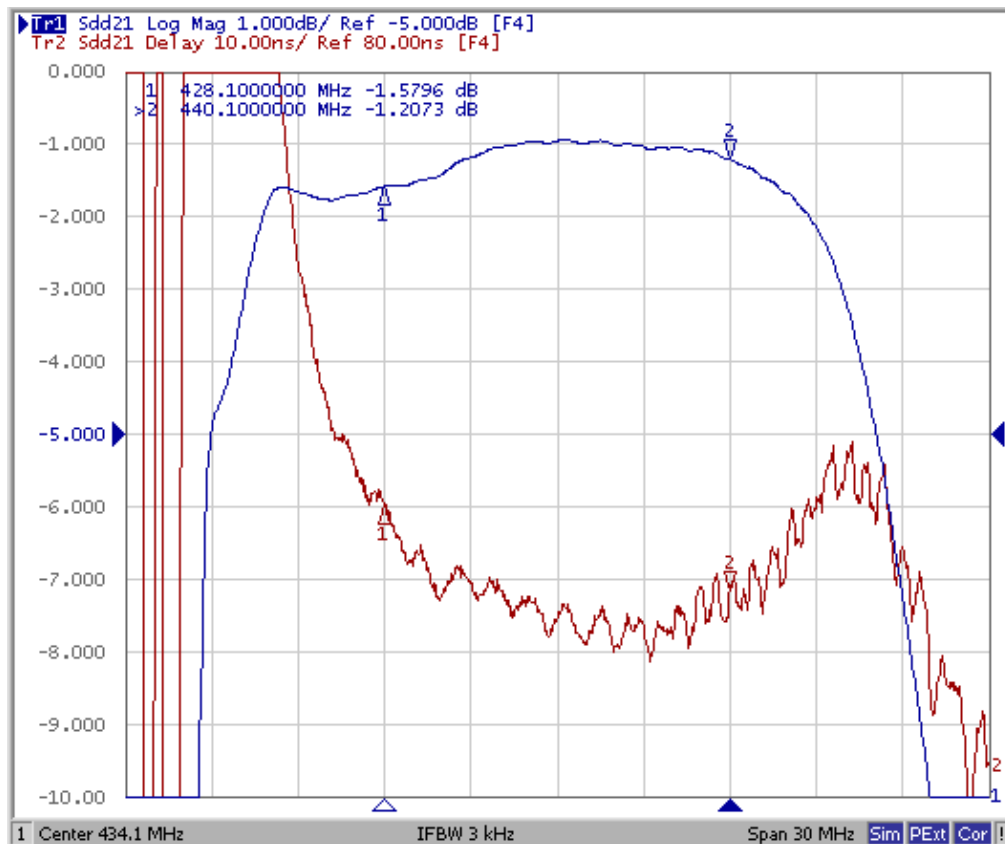
1, 2 : Balance Input
 5, 6 : Balance Output
 3,4,7,8 : Ground
 Unit : mm

□ : Date Code (W01->A,...,W26->Z,...,W27->a,...,W52->z)

E. PCB Footprint:

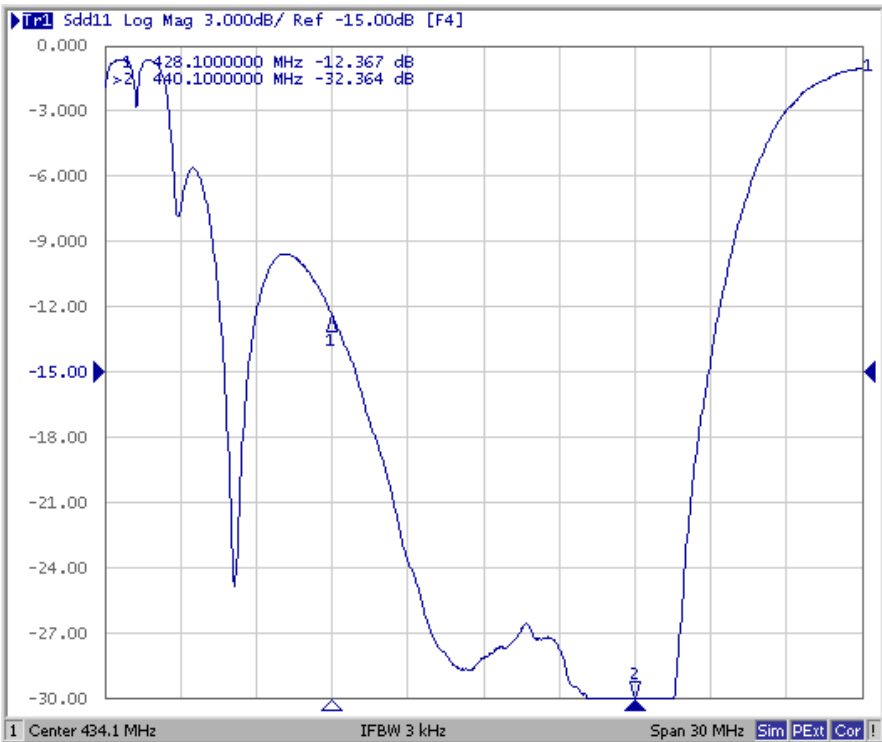


F. Frequency Characteristics :

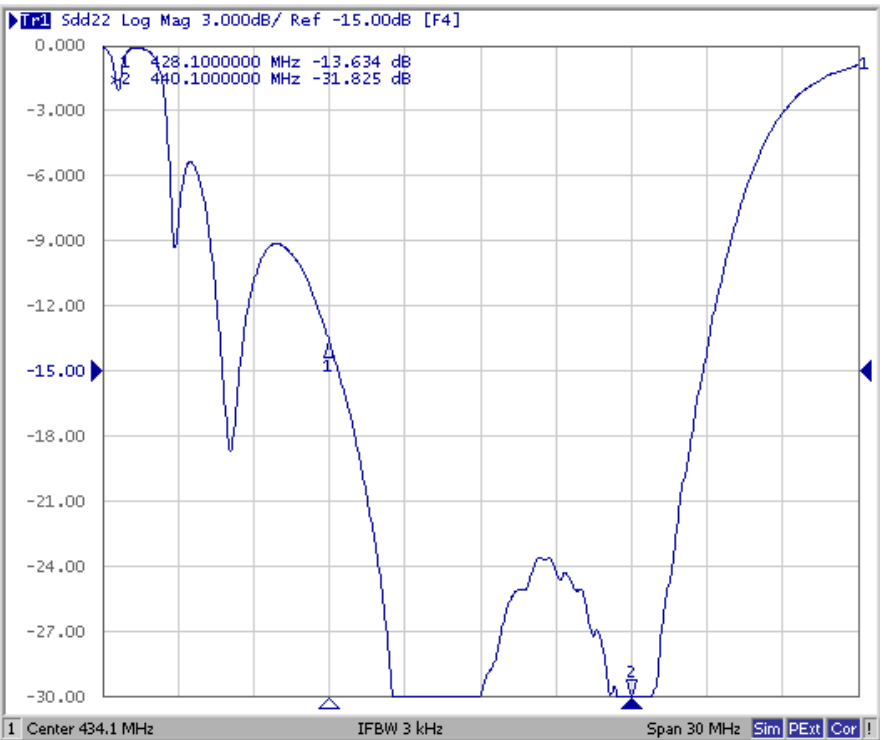


Reflection Functions :

S11



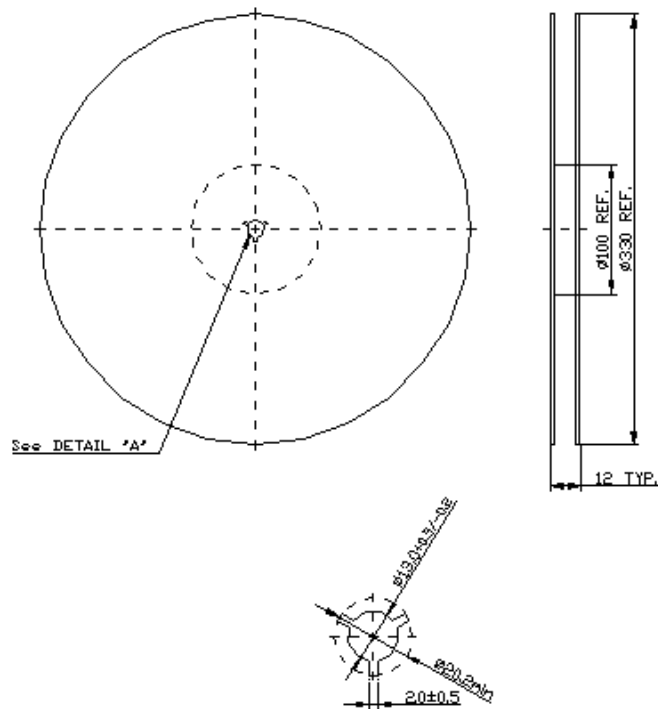
S22



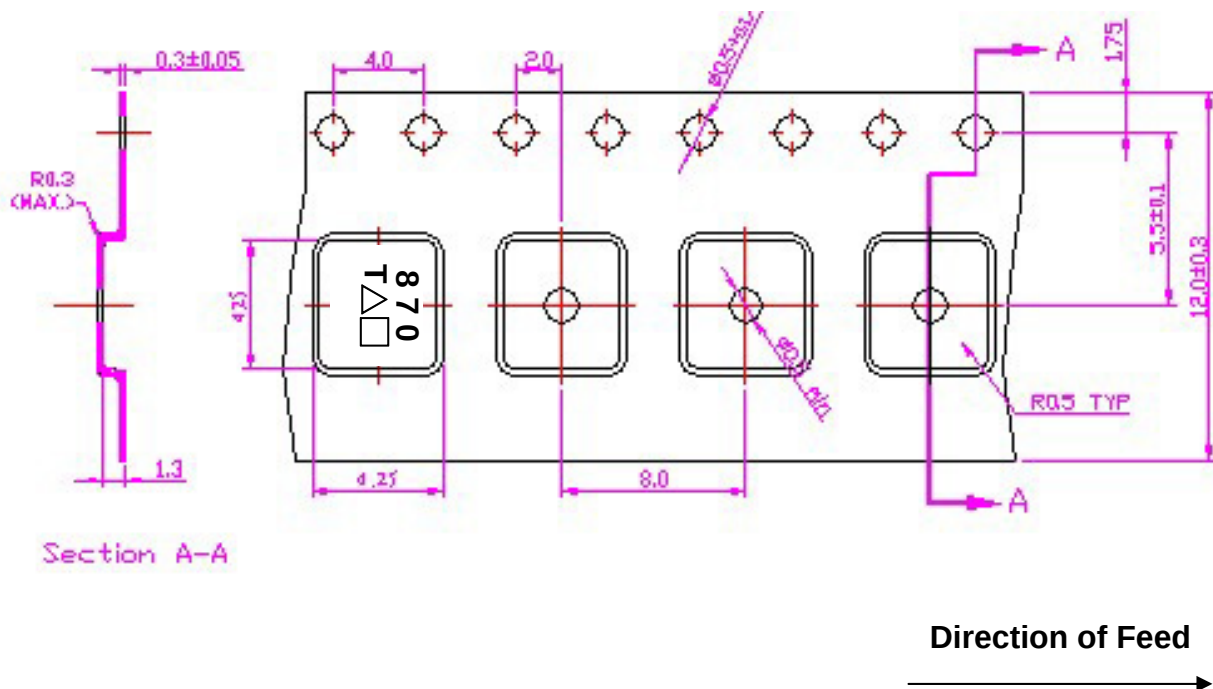
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 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 245~260°C peak (min. 10sec).
4. Time : 2 times.

