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

Product Description: SAW Filter 869 MHz (BW 2MHz) SMD 3X3 mm

TST Part No.: TA2021A (This part is is compliant with AEC-Q200)

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Michael Yang  _____

Approval by:_____ Bob Chau  _____

Date:_____ 2016/8/30 _____

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, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

SAW Filter 869MHz

MODEL NO.:TA2021A REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC Voltage : 6V
3. Operating Temperature: -40°C to +80°C
4. Storage Temperature: -40°C to +80°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

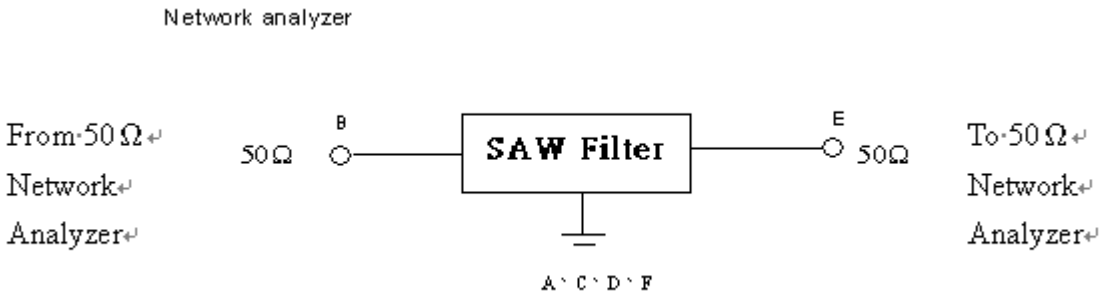
Terminating source impedance (single) : Zs = 50 Ω

Terminating load impedance(single) : Z_L = 50 Ω

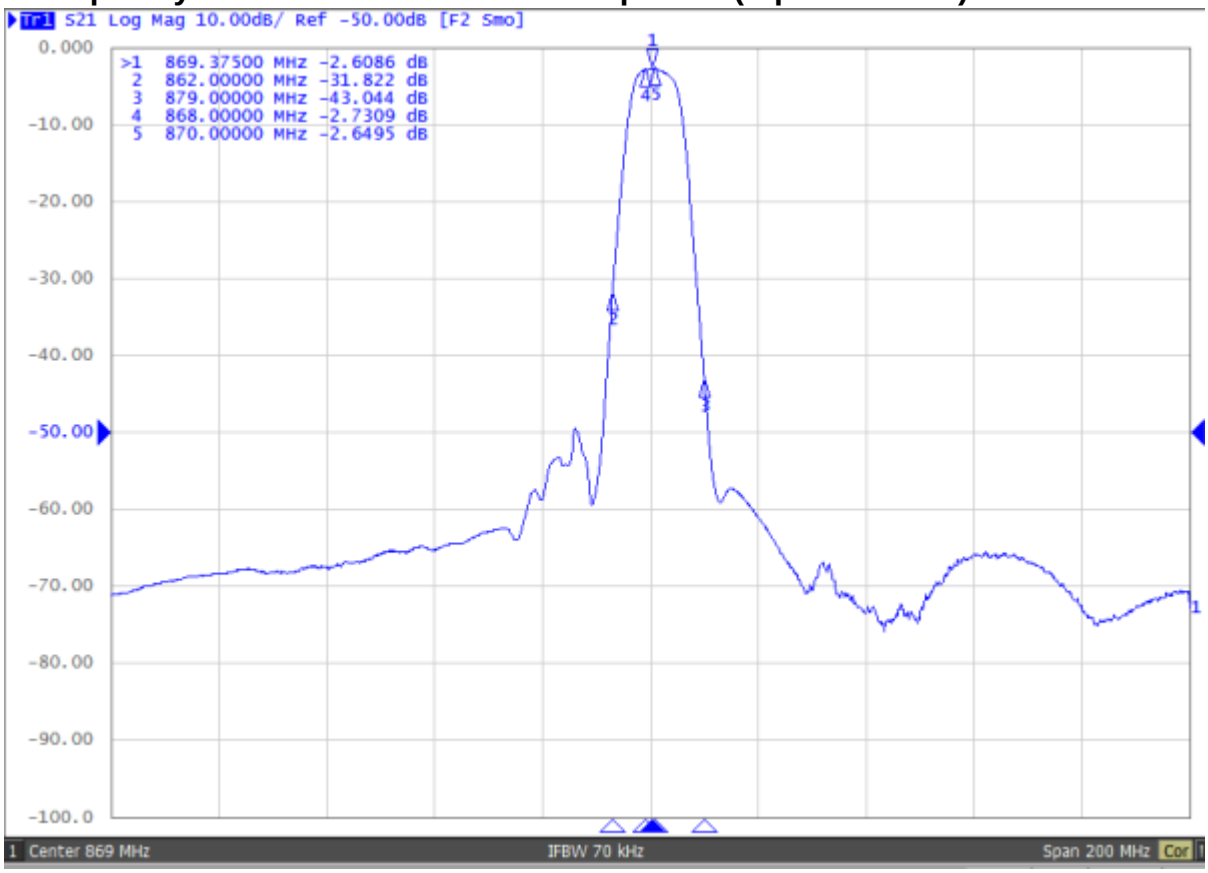
Item	Unit	Min	Type.	Max
Center Frequency **Fc**	MHz	-	869.	-
Insertion Loss (868~870 MHz) **IL**	dB		3.0	3.5
VSWR (868~870 MHz)			1.5	2.0
Amplitude ripple				
(868~870 MHz)	dB		0.5	1.2
Attenuation				
50 ~ 791 MHz	dB	45	50	
791 ~ 835 MHz	dB	45	50	
835 ~ 848 MHz	dB	43	48	
848 ~ 862 MHz	dB	15[1)]	25	
880 ~ 883 MHz	dB	35	45	
883 ~ 1000 MHz	dB	49	54	
Package size	mm	SMD 3x3		

1) 25dB at 25℃; 15dB for -40℃ to +60℃

C.. TEST CIRCUIT:

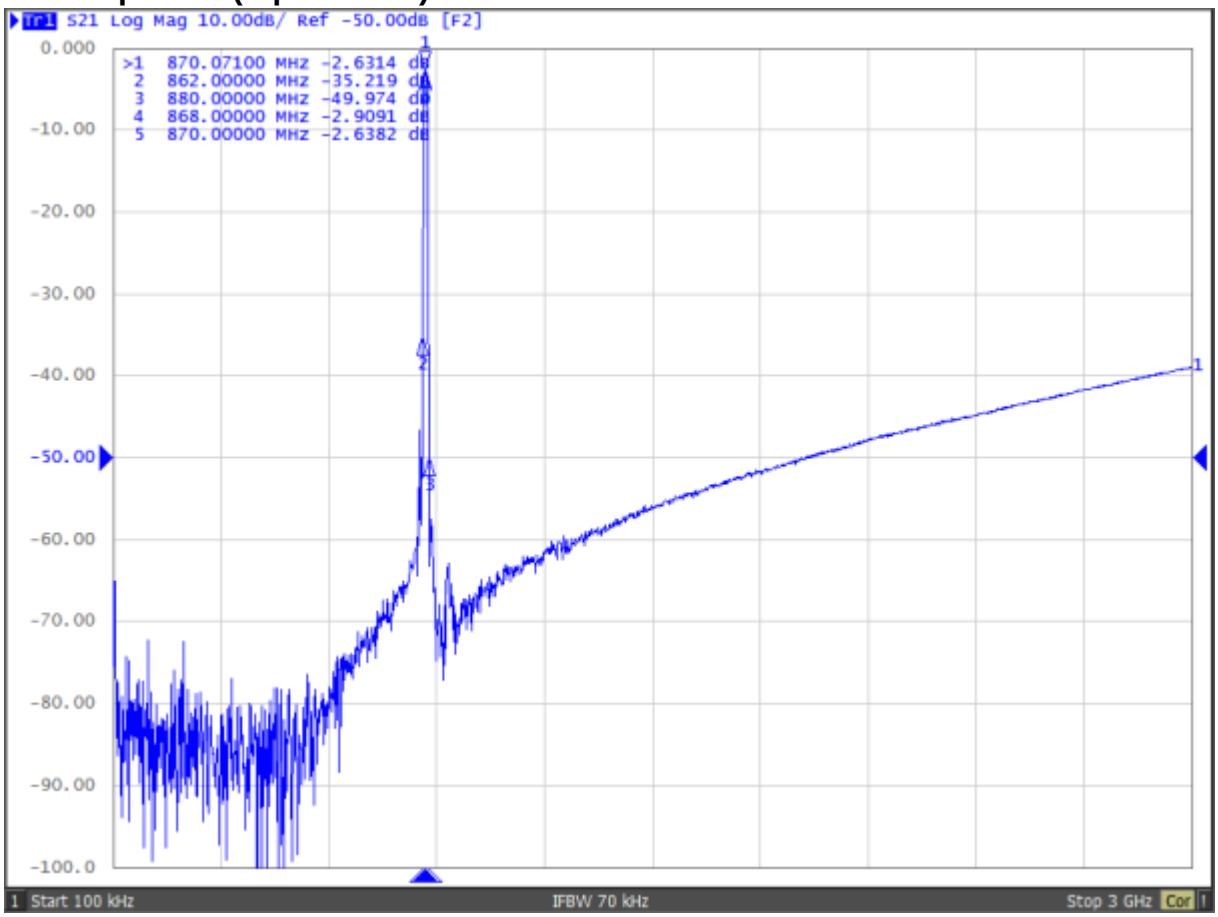


D. Frequency Characteristics: S21 response :(Span 200MHz)

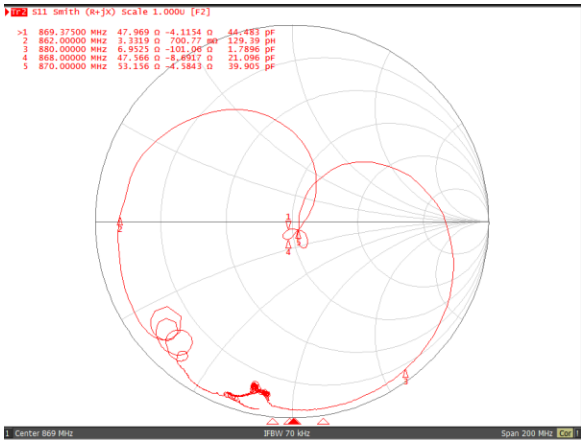


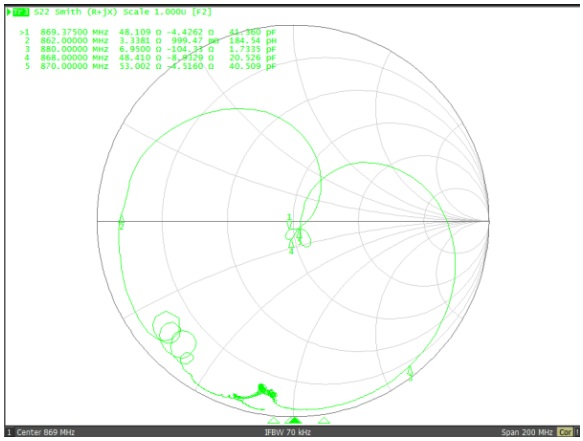
S21 response :(Span 20MHz)

S21 response :(Span 3GHz)

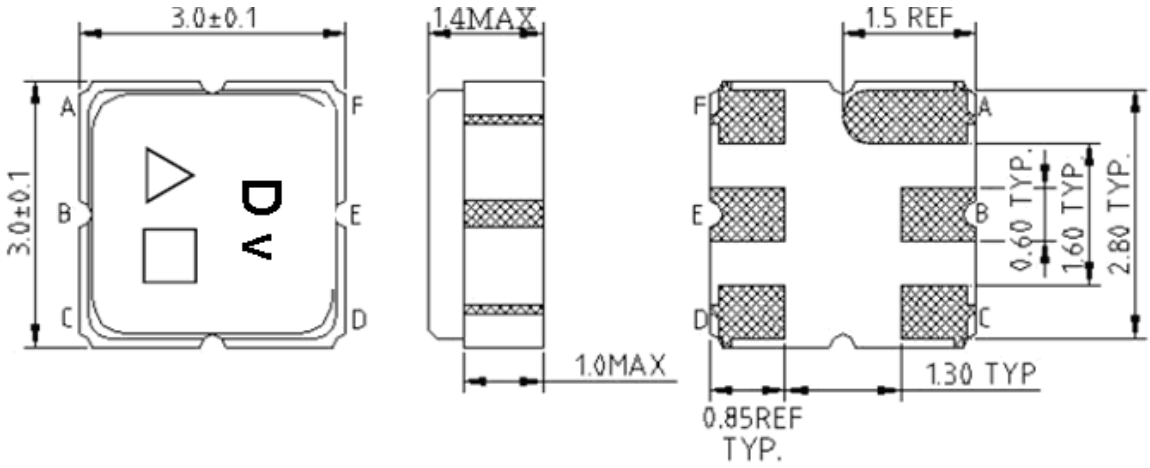


S11/S22 response:





E.OUTLINE DRAWING:



#B: Input
#E: Output
A.C.D.F Ground
△:Year code (ex 2008→8)
□: Date code
Unit: mm

Data code：See the table

WK	01	02	…	26	27	28	…	52
Code	A	B	…	Z	a	b	…	z

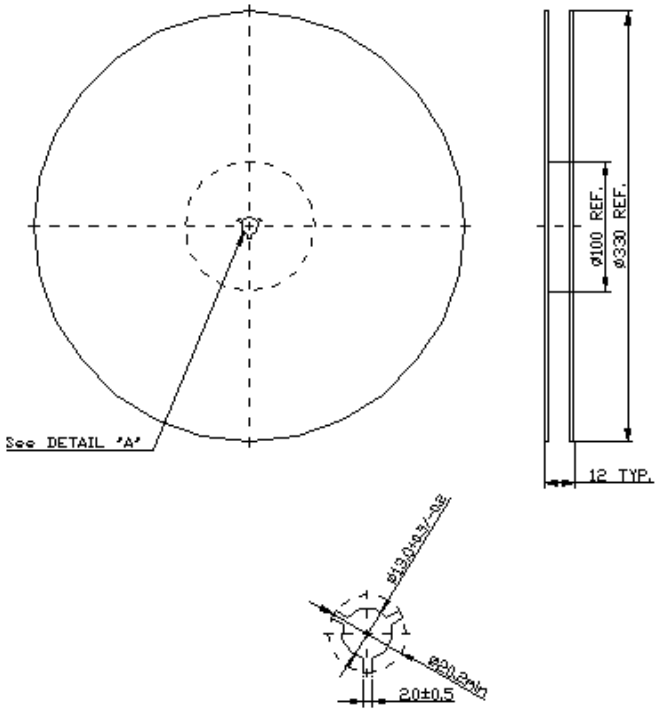
Δ Year code：See the table

Year	2008	2009	2010	2011	…	2019	2020
Code	8	9	0	1	…	9	0

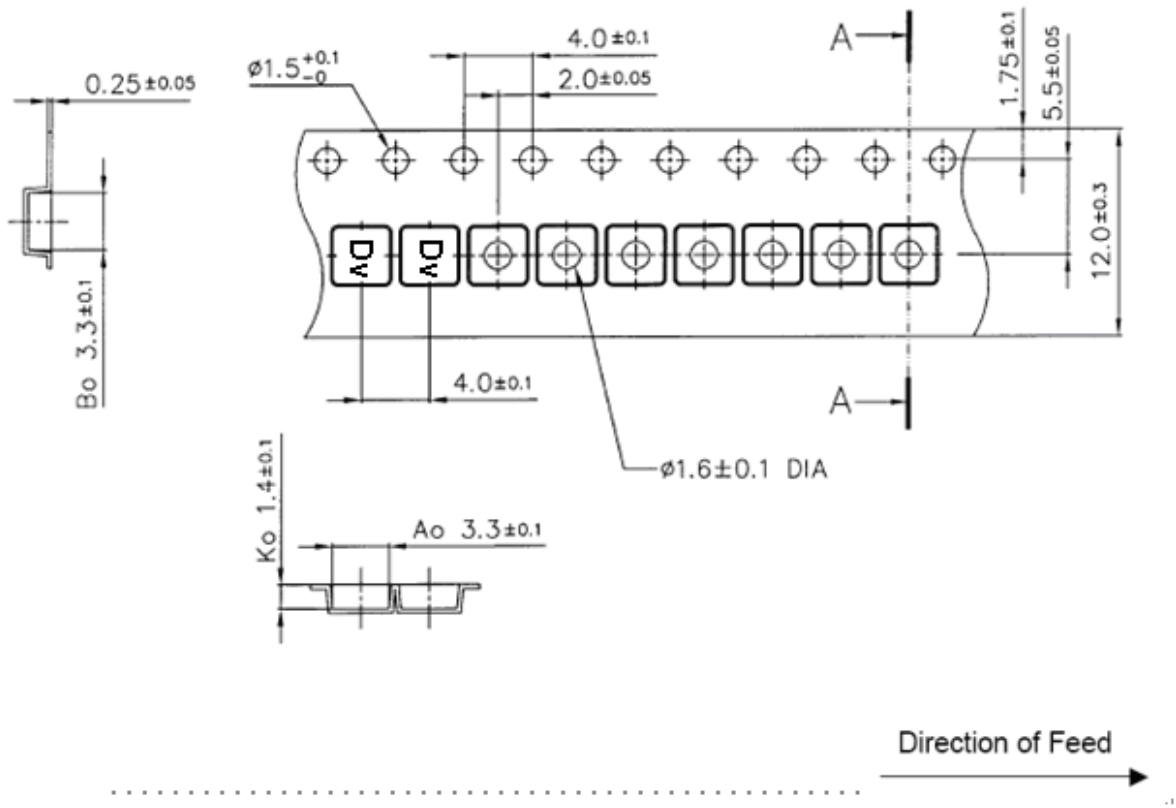
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G. <u>RECOMMENDED REFLOW PROFILE</u> :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.