



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: SAW Filter 869.225 MHz (BW 1.85MHz) SMD 2.0X1.6 mm

TST Parts No.: TA1810A

Customer Parts No.:

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Michael Yang 

Approval by: _____ Bob Chau 

Date: _____ 2015/7/1

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 869.225MHz

MODEL NO.:TA1810A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

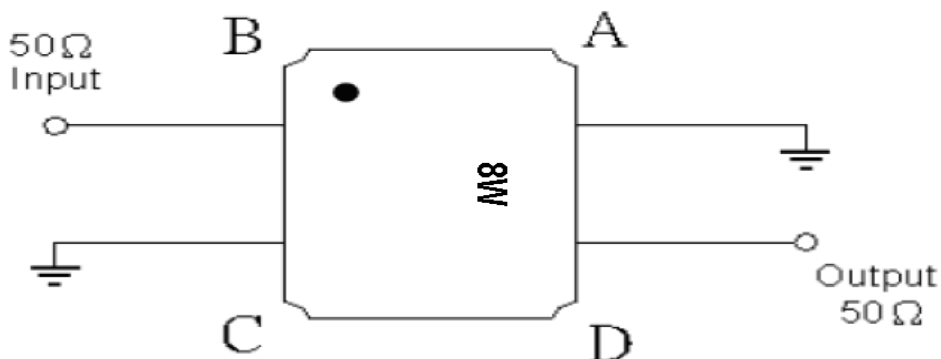
B. ELECTRICAL CHARACTERISTICS:

Terminating source/load impedance (single) : $Z_s = 50 \Omega / Z_L = 50 \Omega$

Test Temperature 25°C

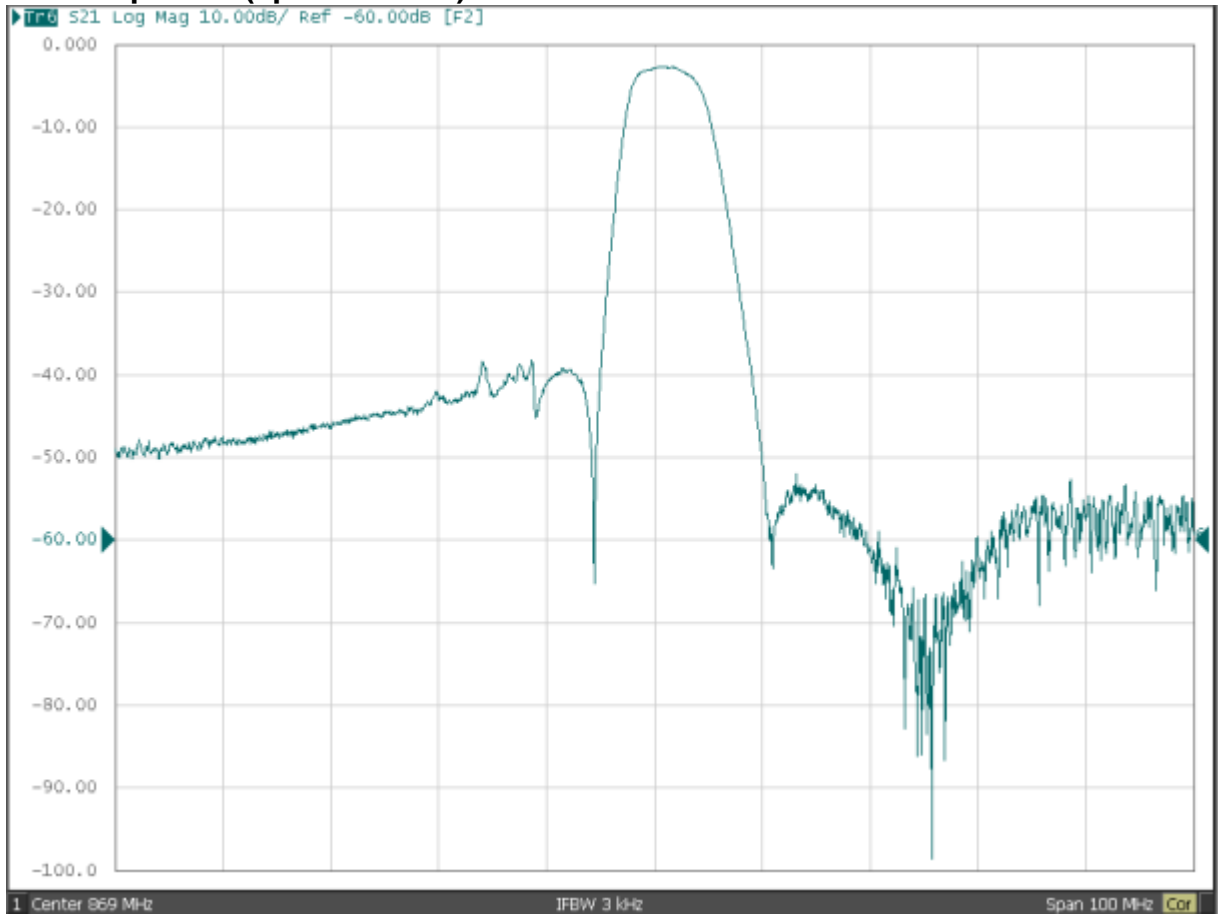
Item	Unit	Min	Type.	Max
Center Frequency F_c	MHz	-	869.225	-
Minimum Insertion Loss α_{min}			3.0	3.5
Pass Band (Relative to α_{min})				
Insertion Loss (868.3~870.15 MHz) IL	dB		3.0	5.0
VSWR (868.3~870.15 MHz)			1.3	2.0
Amplitude ripple (868.3~870.15 MHz)	dB		1.0	2.0
Attenuation				
50 ~ 791 MHz	dB	45	50	
791 ~ 848 MHz	dB	35	40	
848 ~ 862 MHz	dB	35	40	
880 ~ 883 MHz	dB	35	40	
883 ~ 1000 MHz	dB	45	50	

C. TEST CIRCUIT:

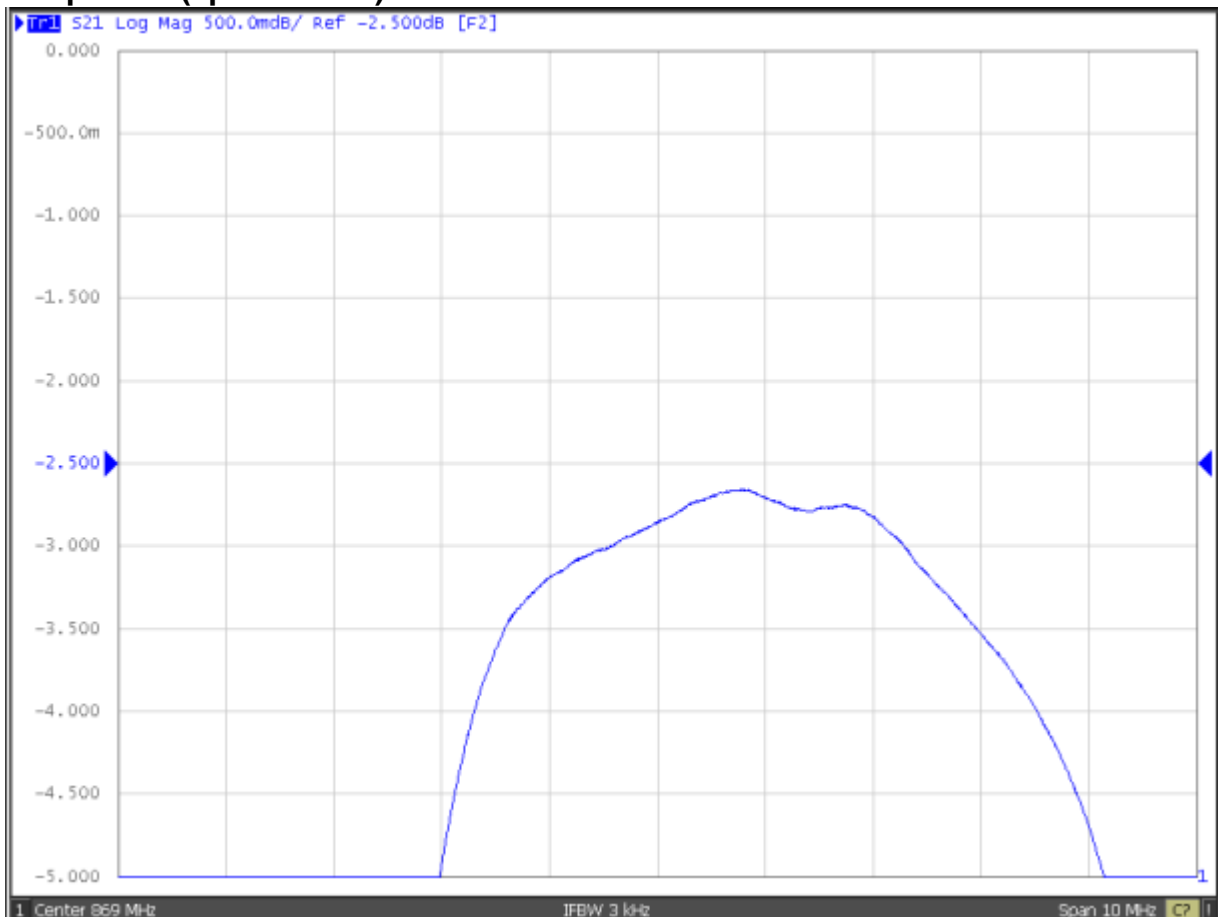


D. Frequency Characteristics :

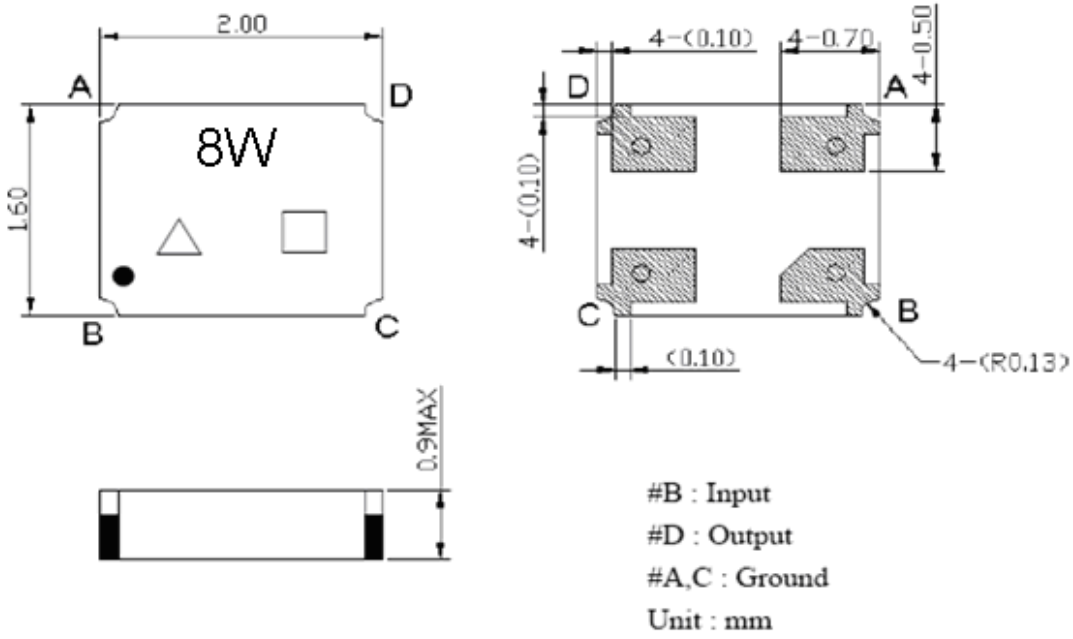
S21 response: (span 100MHz)



S21 response: (span 10MHz)



E.OUTLINE DRAWING:



Date code : See the table

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

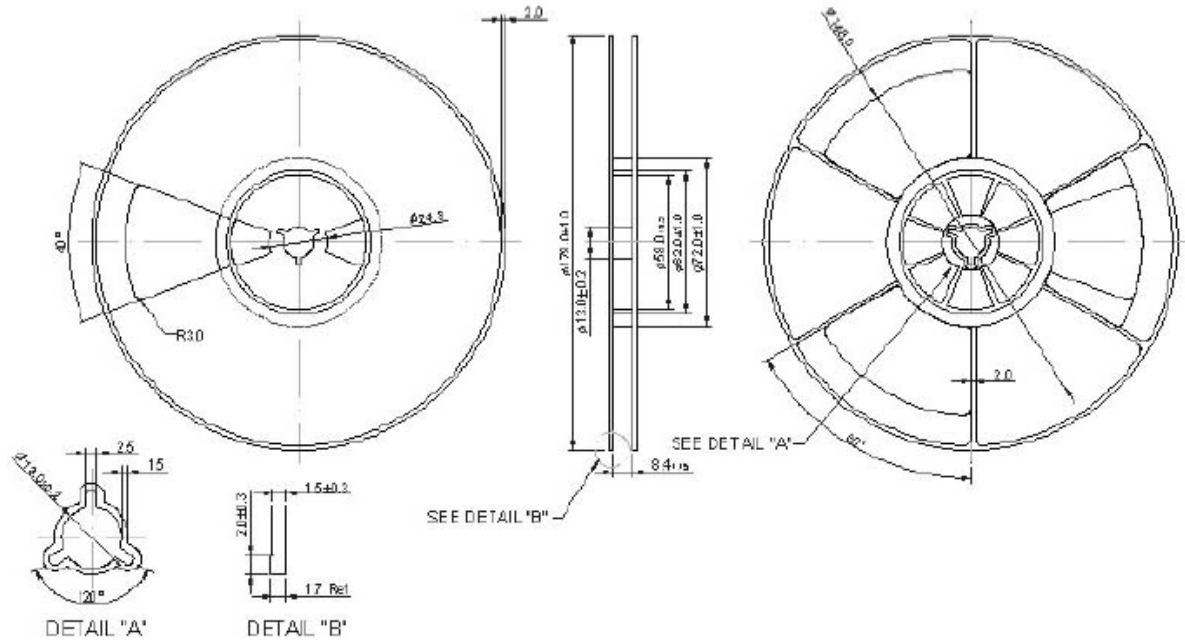
Δ Year code : See the table

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

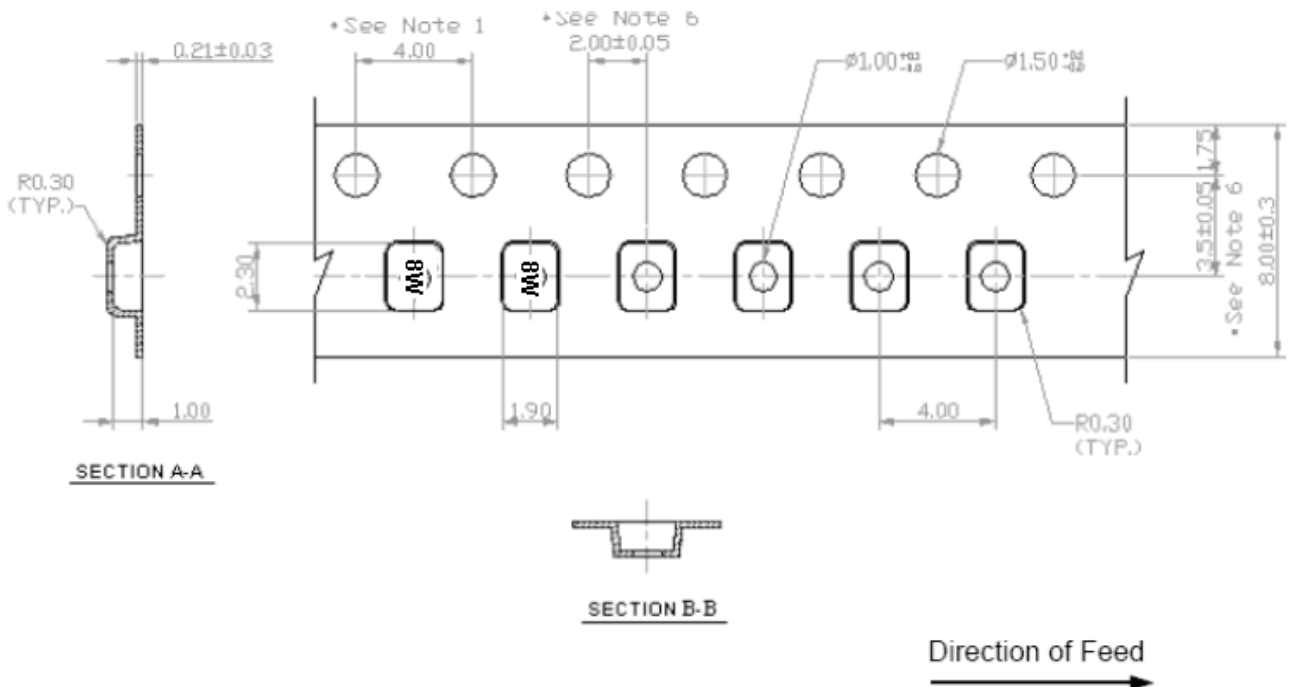
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G. 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 260°C+0/-5°C peak (20~40sec).
4. Time: 2 times.

