



# 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

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## Product Specifications Approval Sheet

Product Name: SAW Filter 521MHz SMD 3.8x3.8 mm (BW=30MHz)

TST Parts No.: TA2505A

Customer Parts No.: \_\_\_\_\_

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

Checked by: \_\_\_\_\_ Hong Pu Lin *Hong Pu Lin*

Approval by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 2019/04/26

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 521 MHz

MODEL NO.: TA2505A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: -30°C to +60°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant  
Lead free  
Lead-free soldering

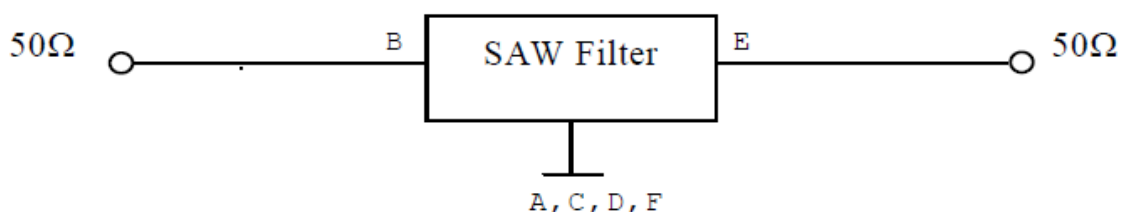
Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

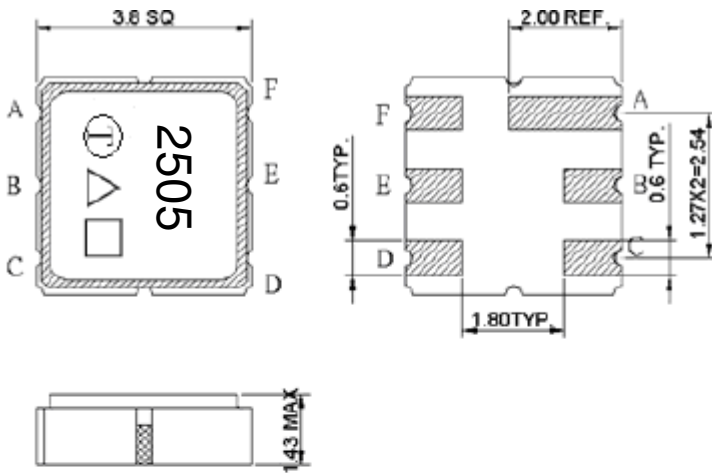
Item	Unit	min	type	Max
Center Frequency Fc	MHz		521	
Insertion Loss 506~536MHz IL(25°C)	dB		3	4.5
Insertion Loss 506~536MHz IL(-30°C to +60°C )	dB		4.2	6
Amplitude Ripple 506~536MHz	dB		1.3	4
Absolute Delay 506~536MHz	ns		45	85
Bandwidth -4.5dB	MHz	30	36	
<b>Attenuation</b> (Reference level from 0dB)				
10~480 MHz	dB	30	34	
480~486 MHz	dB	15	21	
552~605 MHz	dB	10	18	
605~830 MHz	dB	30	43	
830~1000 MHz	dB	25	38	
Temperature Coefficient of Frequency	ppm/°C	-75 typ		

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



**D. OUTLINE DRAWING:**

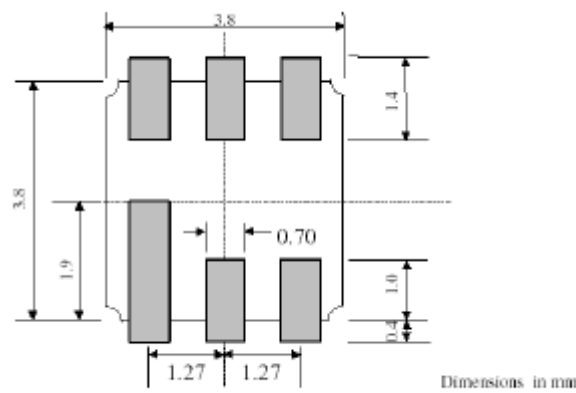


- B : Input
  - E: Output
  - A,C,D,F Ground
  - △:Year Code
  - : Date Code(Follow the table provided by planner each year.)
- Unit: mm

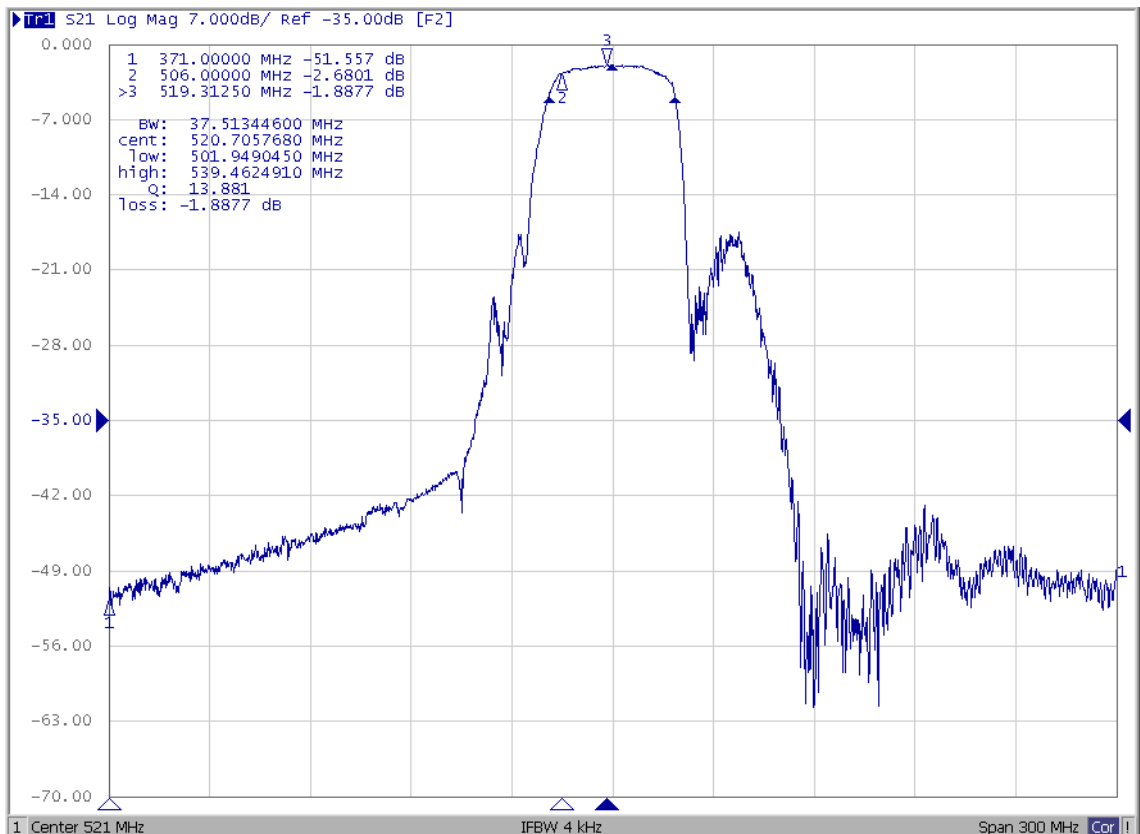
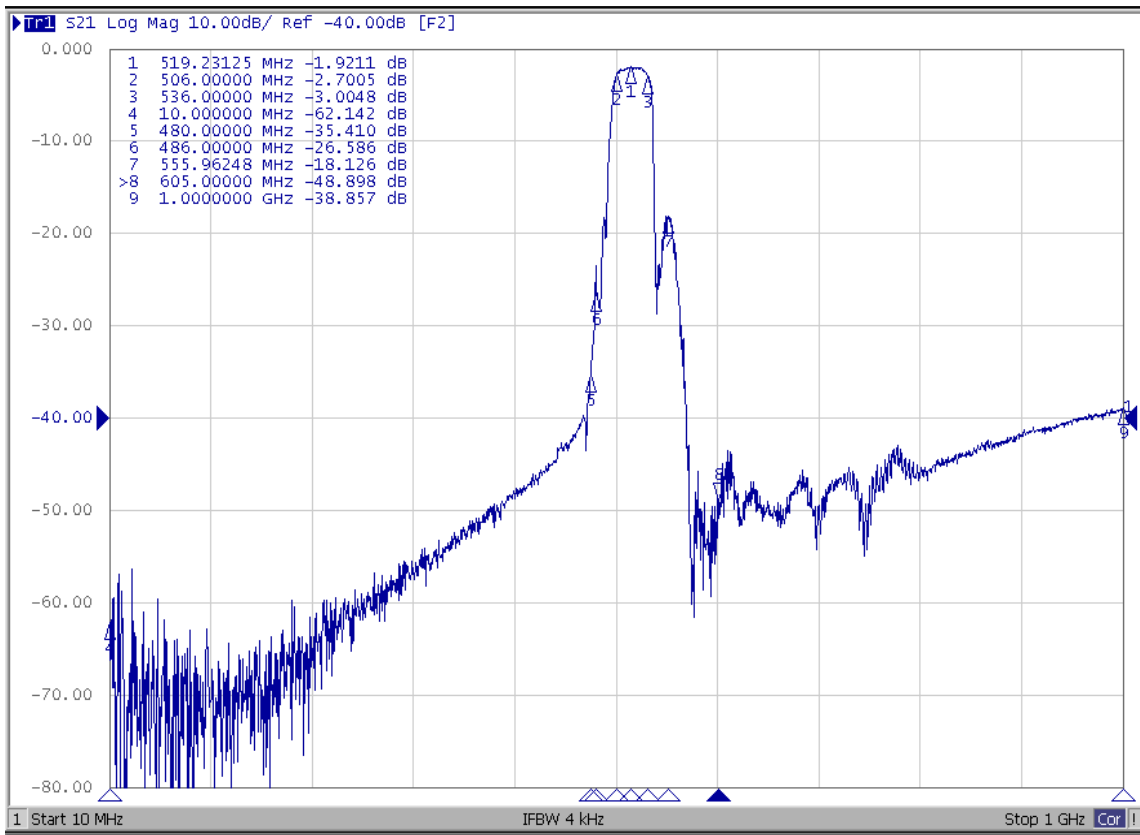
**△ Product Year Code**

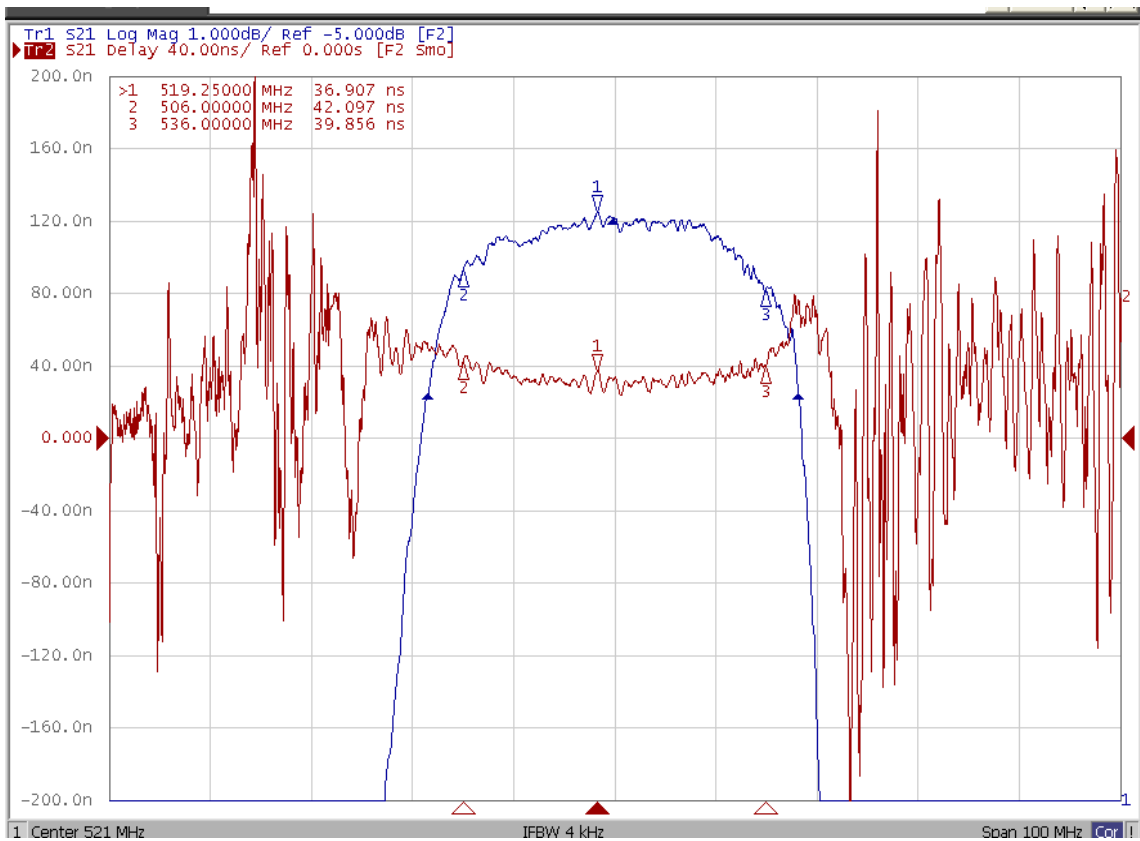
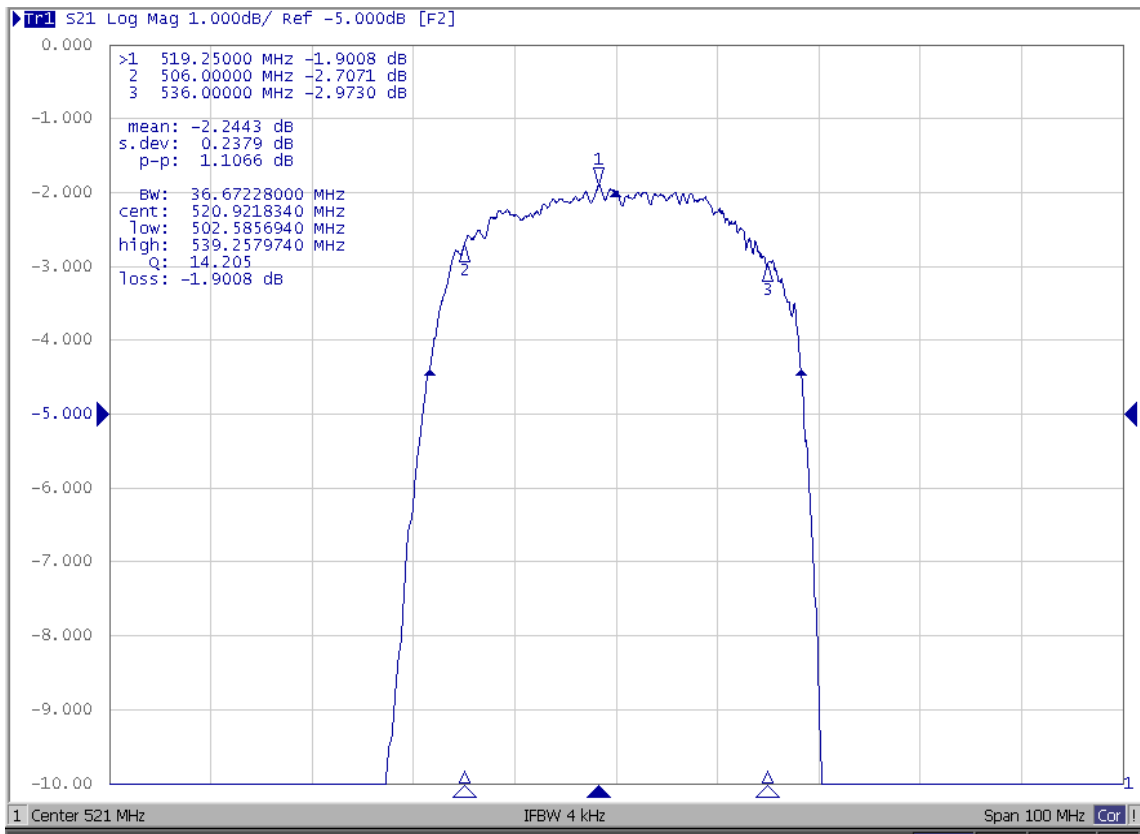
Year	2017	2018
	2019	2020
	2021	2022
	2023	2024
	Product Code	A

**E. PCB Footprint:**



## F. Frequency Characteristics:

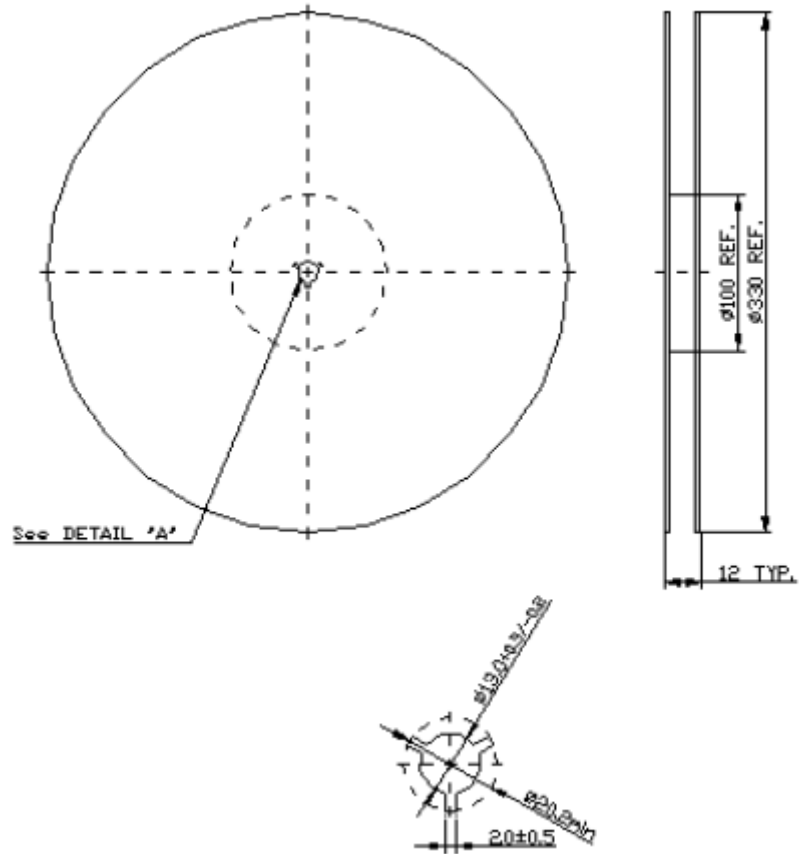




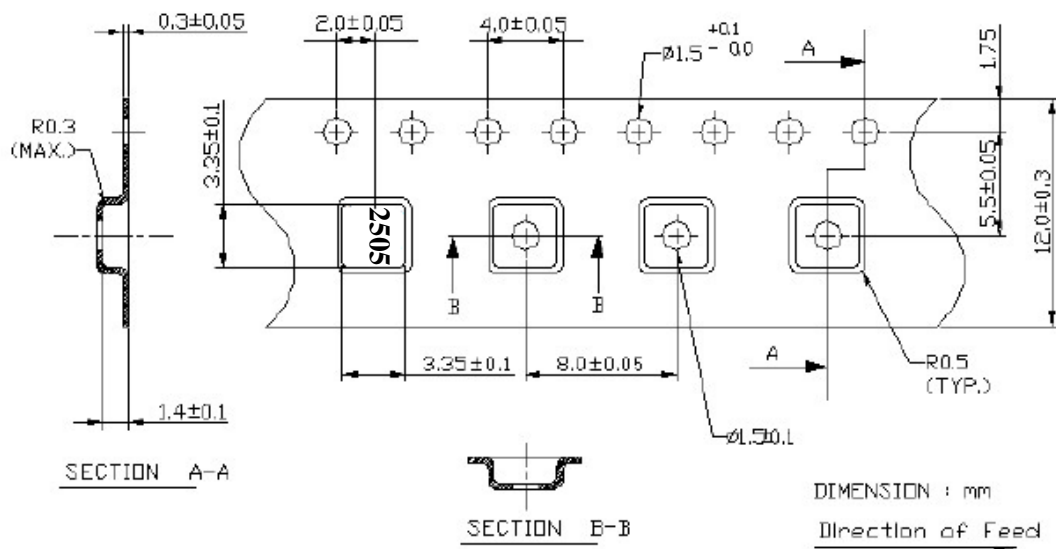
## G. PACKING: (Ref. WI-75M03)

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

