



# 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 Specifications Approval Sheet

Product Description: SAW Filter 1565.5MHz 81MHz BW SMD 1.4 x 1.1mm

TST Parts No.: TA2851AA1334 (This part is compliant by AEC-Q200)

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

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

Checked by: \_\_\_\_\_ Michael Yang *Michael*

Approval by: \_\_\_\_\_ Kazuma Lee *Kazuma Lee*

Date: \_\_\_\_\_ 2022/12/03

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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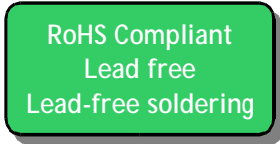
SAW Filter 1565.5MHz 81MHz BW (SMD 1.4x1.1 mm)

MODEL NO.: TA2851AA1334

REV. NO.1

## A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 105°C
2. Storage temperature range: -40°C to 105°C
3. Input Power Level : 15dBm
4. Maximum DC Voltage : 3V
5. Moisture Sensitivity Level1: (MSL1)



Electrostatic Sensitive Device

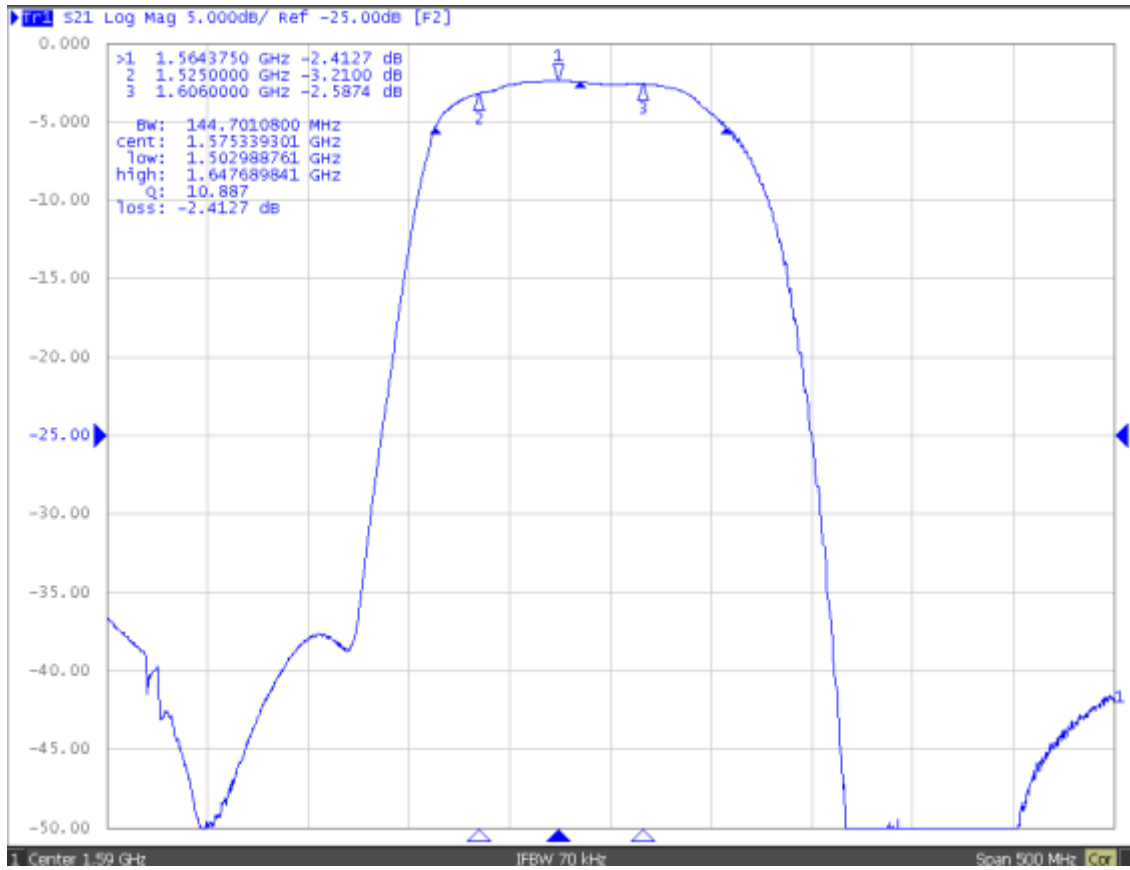
## B. CHARACTERISTICS:

Ambient Temperature: 25°C

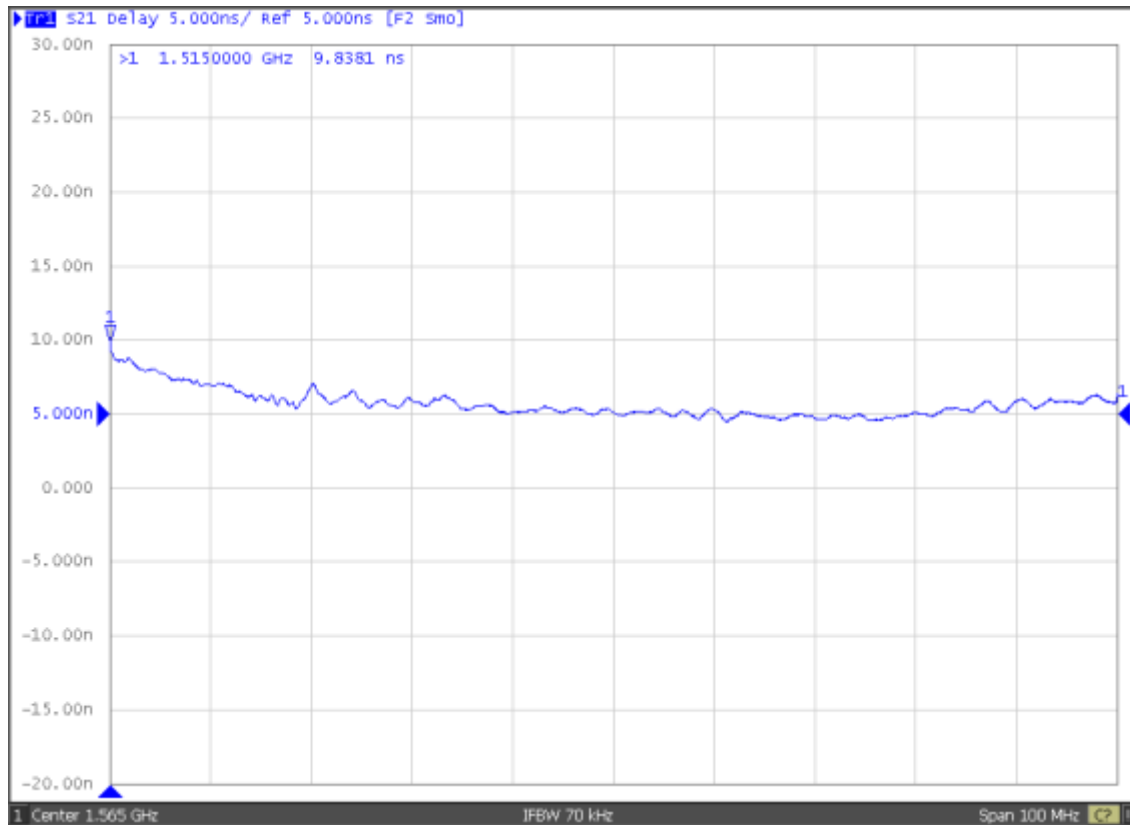
Item	Unit	Min.	Typical	Max.
Center frequency, <b>F<sub>c</sub></b>	MHz	-	1565.5	-
Max. Insertion Loss, (1525~1606MHz)	dB	-	3.1	3.7
Pass band Ripple (1525~1606MHz)	dB	-	0.6	2.0
Group Delay Variation (1525~1606MHz)	ns	-	2	15
Group Delay Variation(1525~1606MHz) On 2MHz sliding Window	ns	-	1.2	15
Group Delay Variation (1573.374~1577.466MHz)	ns	-	0.5	5
Group Delay Variation (1597.55~1605.866MHz)	ns	-	1	5
Return Loss (1525~1606MHz)	dB	6.0	9.0	-
Attenuation Referenced from 0dB				
703MHz ~ 915MHz	dB	25	30	-
1320MHz ~ 1420MHz	dB	25	30	-
1740MHz ~ 2000MHz	dB	25	30	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

### C. FREQUENCY CHARACTERISTICS:

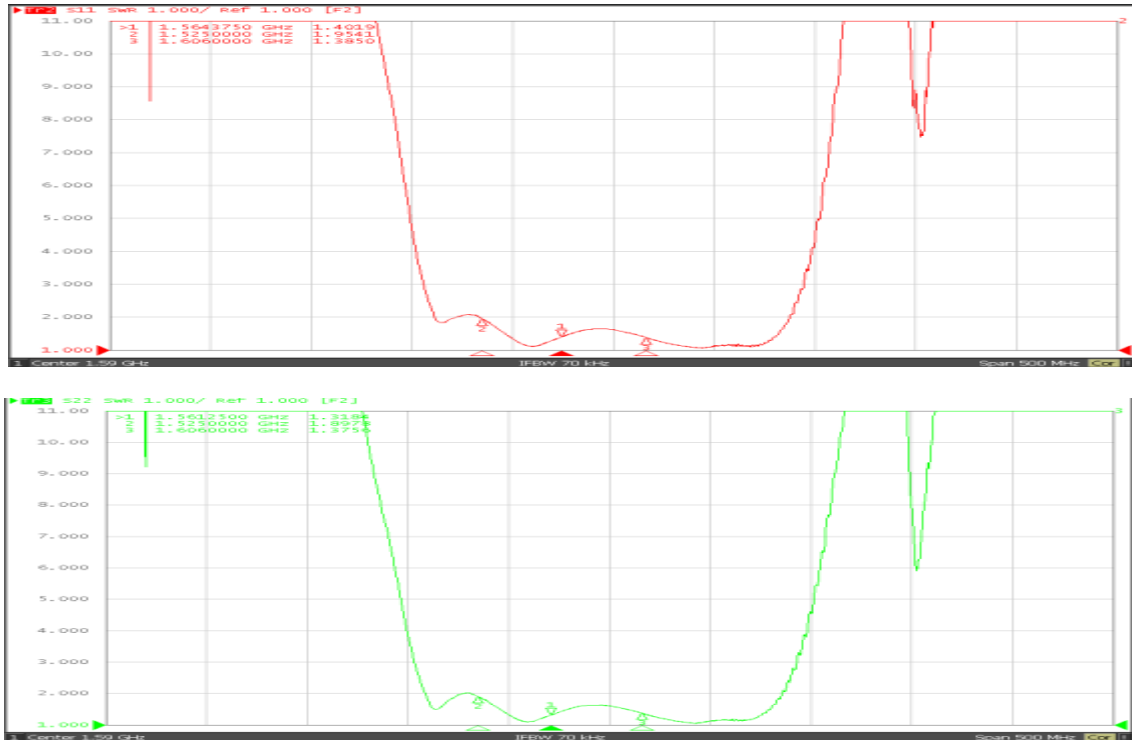
#### (1) Narrow Band Response:



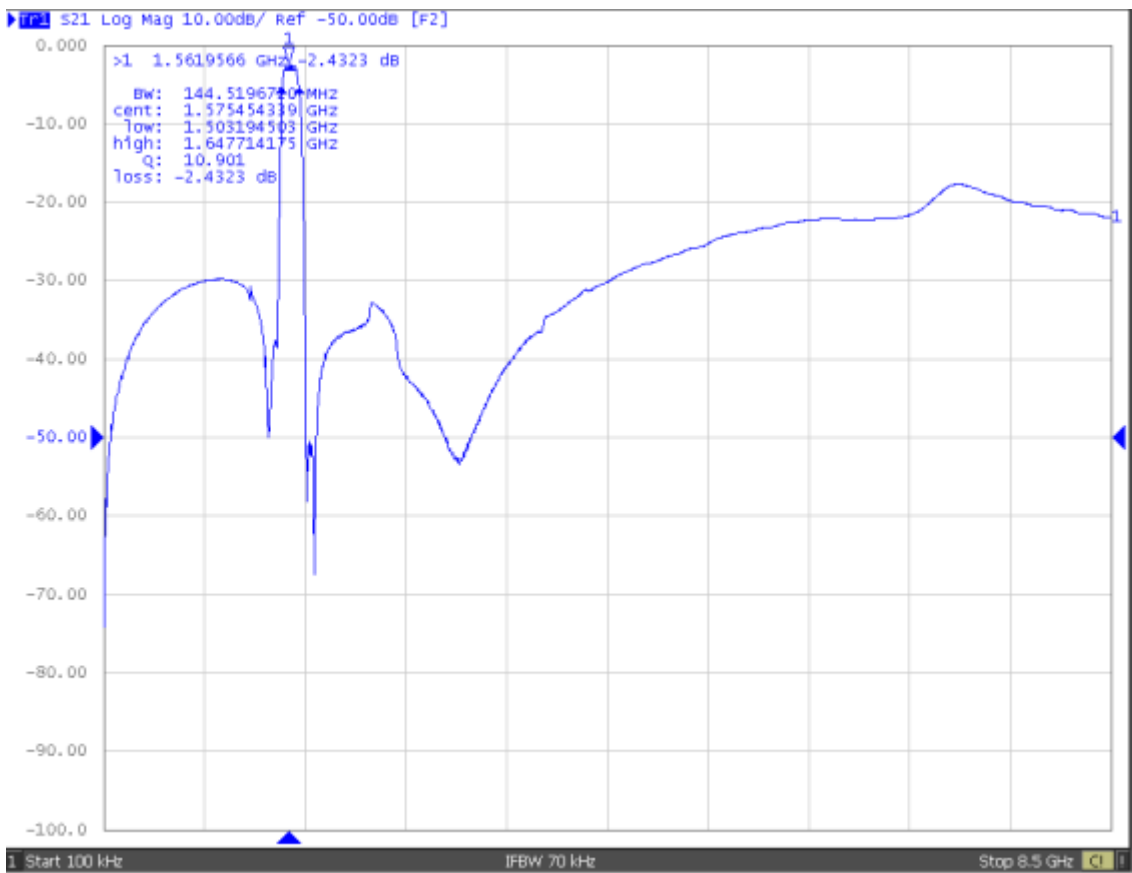
#### (2) Group Time Delay Response:



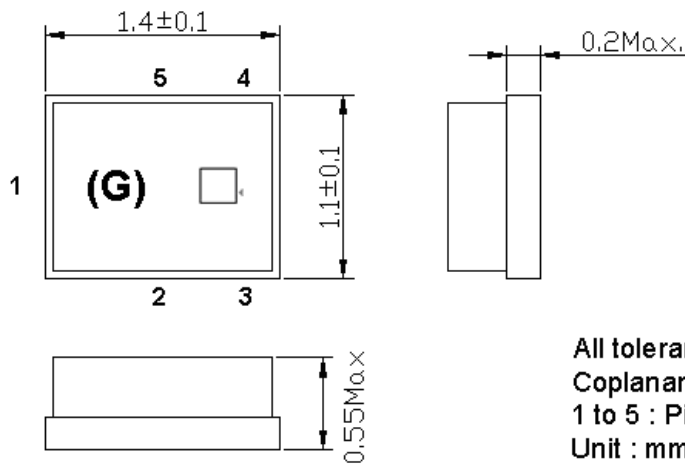
(3) VSWR:



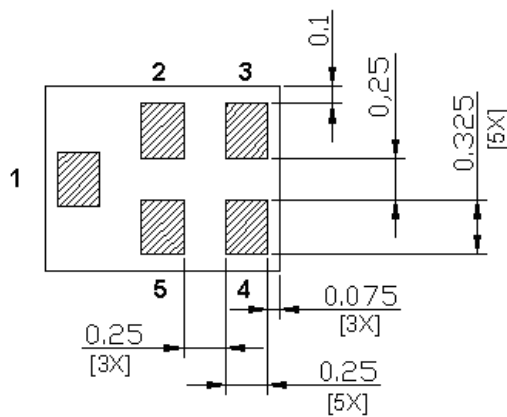
(4) Wide Band Response:



**C.OUTLINE DRAWING:**



All tolerances are  $\pm 0.05$  mm unless otherwise specified  
 Coplanarity : 0.1 mm max.  
 1 to 5 : Pin No.  
 Unit : mm

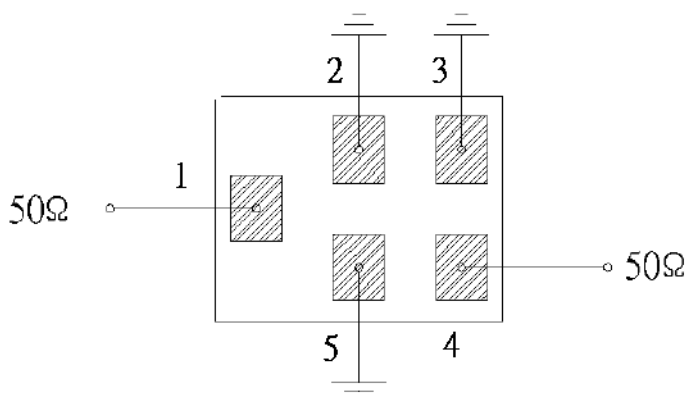


Pin No.Ⓟ	SymbolⓅ	FunctionⓅ
1Ⓟ	INⓅ	InputⓅ
2Ⓟ	GNDⓅ	GroundⓅ
3Ⓟ	GNDⓅ	GroundⓅ
4Ⓟ	OUTⓅ	OutputⓅ
5Ⓟ	GNDⓅ	GroundⓅ

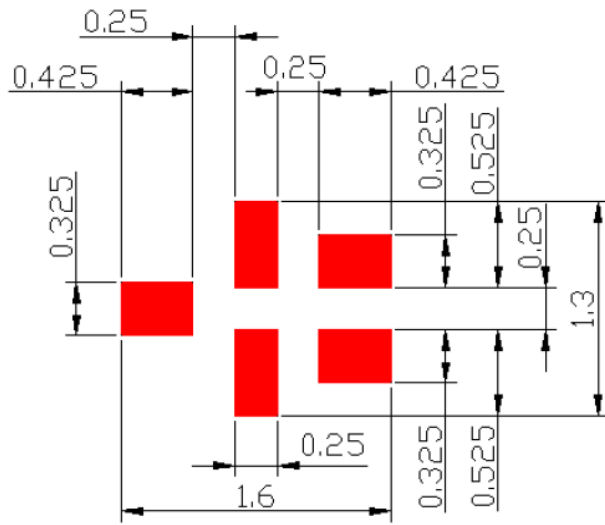
□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2027	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>i</u>	<u>k</u>	<u>l</u>	<u>m</u>
2028	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

**D. MEASUREMENT CIRCUIT:**



**E. PCB FOOTPRINT:**



: Land Pattern

**F. PACKING:**

1. REEL DIMENSION

(Reel Count : 7"=2000 or per the request of customer order)

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

