



# 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 Rx Filter 942.5 MHz LTE Band 8 SMD 1109

TST Part No.: TA1839D

Customer Part No.: \_\_\_\_\_

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

Checked by: \_\_\_\_\_ Eric Chen *Eric Chen*

Approved by: \_\_\_\_\_ Andy yu *Andy Yu*

Date: \_\_\_\_\_ 2017/04/26

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 Rx Filter 942.5 MHz LTE Band 8 SMD 1109 (35.0MHz BW)

MODEL NO.:TA1839D

REV. NO.:2.0

### A. MAXIMUM RATING:

1. Maximum Input Power: 10 dBm
2. DC voltage: 0 V
3. Operating Temperature: -20°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 3 (MSL 3)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance :  $Z_s = 50 \Omega$

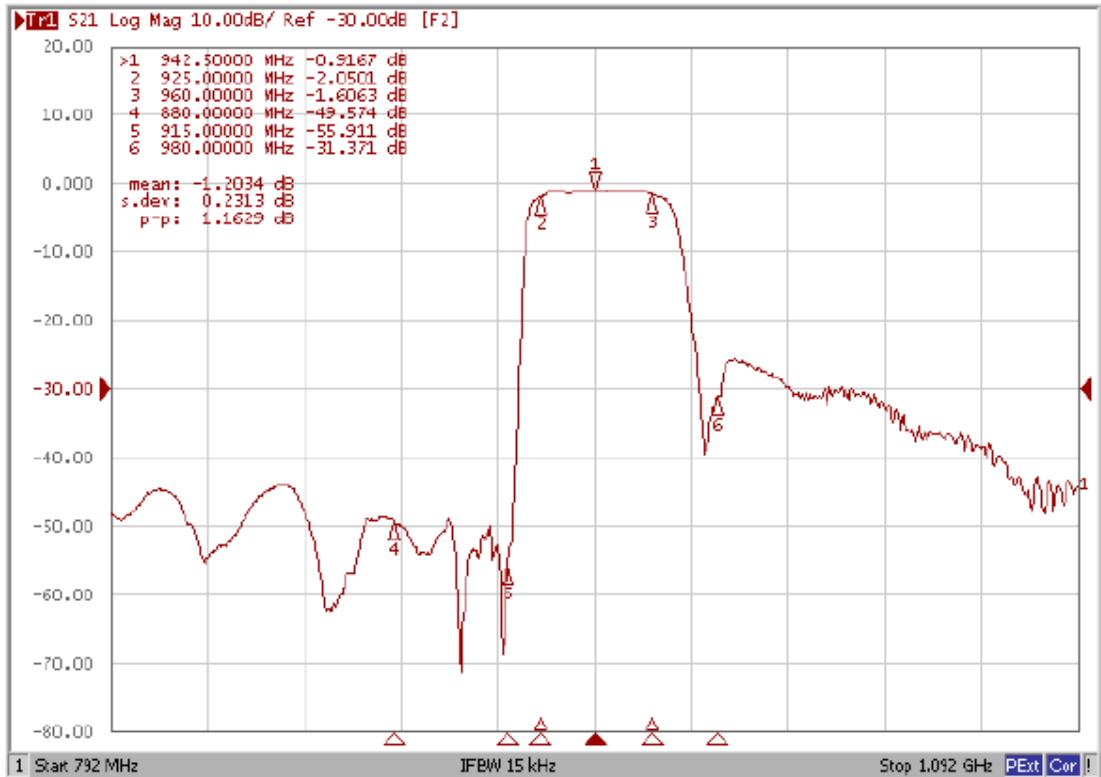
Terminating load impedance :  $Z_L = 50 \Omega$

Item	Unit	Min.	Type.	Max.	Note
<b>Center Frequency</b> <b>Fc</b>	MHz	-	942.5	-	-
<b>Insertion Loss</b> (925~960 MHz) <b>IL</b>	dB	-	2.0	3.0	-
<b>Amplitude ripple</b> (925~960 MHz)	dB	-	1.2	2.3	-
<b>Input VSWR</b> (925~960 MHz)	-	-	1.9	2.3	-
<b>Output VSWR</b> (925~960 MHz)	-	-	1.9	2.3	-
<b>Attenuation</b> (Reference level from 0 dB)					
880.0~915.0 MHz	dB	46	49	-	-
980.0~1558.0 MHz	dB	15	25	-	-
1559.0~1607.0 MHz	dB	40	55	-	-
1850.0~1920.0 MHz	dB	35	48	-	-
2400.0~2500.0 MHz	dB	30	40	-	-
2775.0~2880.0 MHz	dB	28	37	-	-
3700.0~3840.0 MHz	dB	25	33	-	-
4625.0~4800.0 MHz	dB	20	34	-	-
4900.0~5950.0 MHz	dB	18	34	-	-
5550.0~5725.0 MHz	dB	18	36	-	-
6475.0~6720.0 MHz	dB	15	32	-	-
7400.0~7680.0 MHz	dB	15	25	-	-

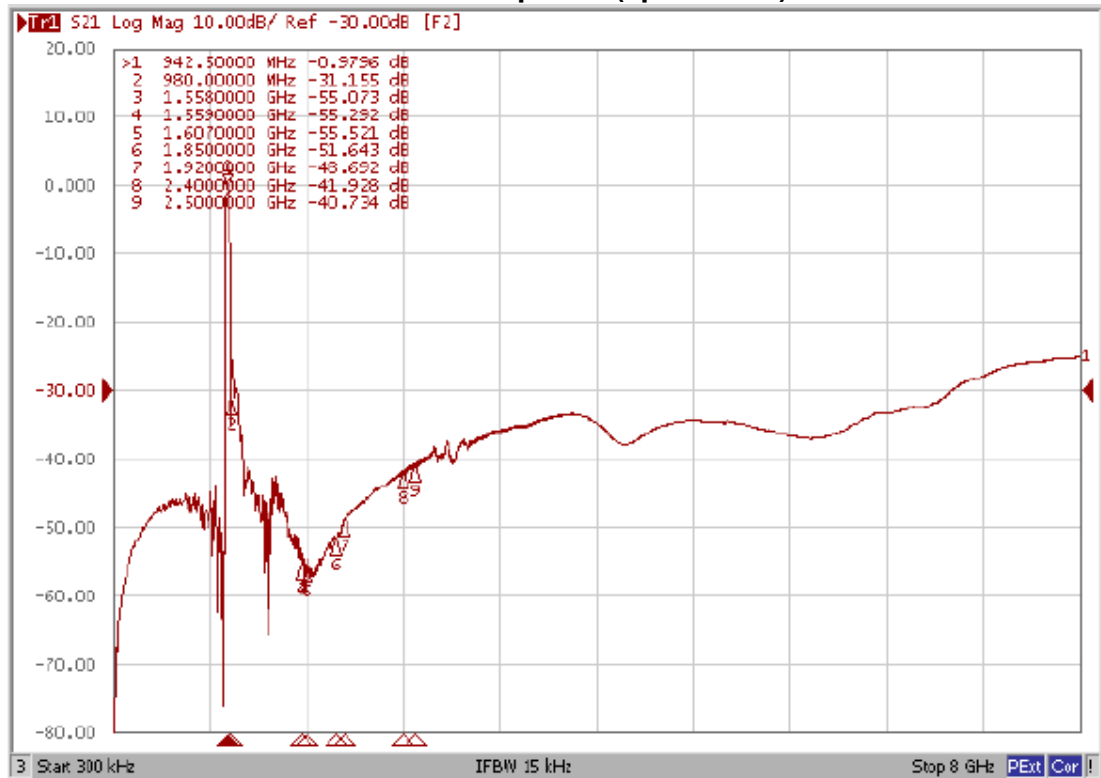
**Notes:** (1) No Matching Network.

### C. Frequency Characteristics :

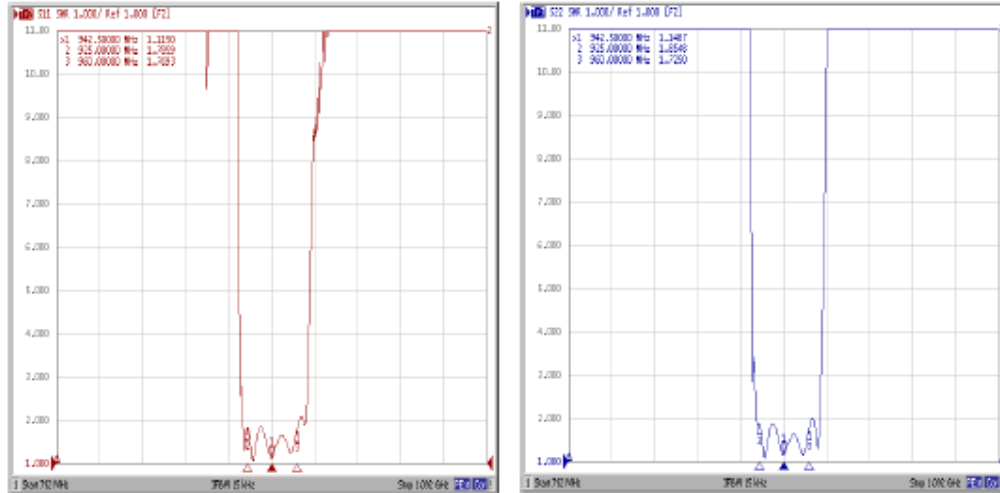
#### 1. S21 Response (span 300MHz)



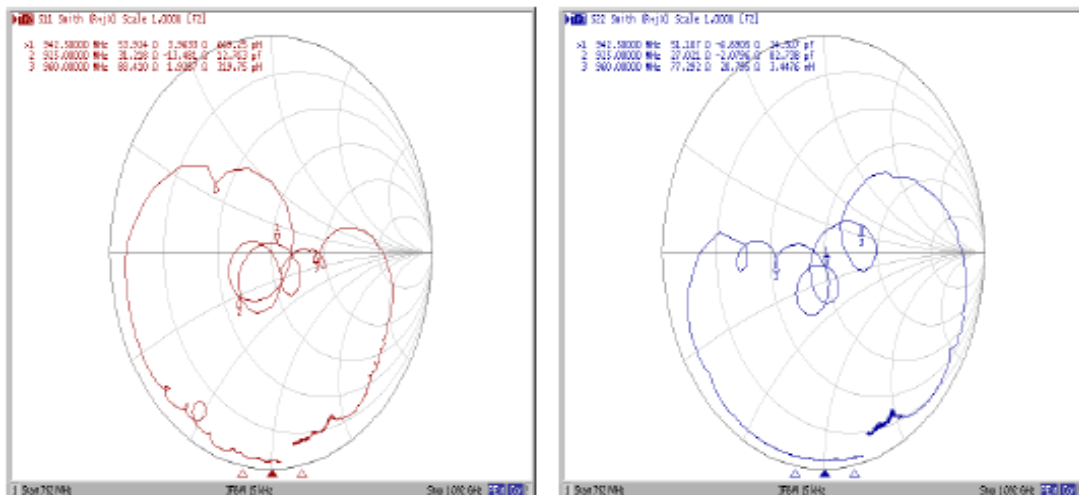
#### 2.S21 Response (span 8GHz)



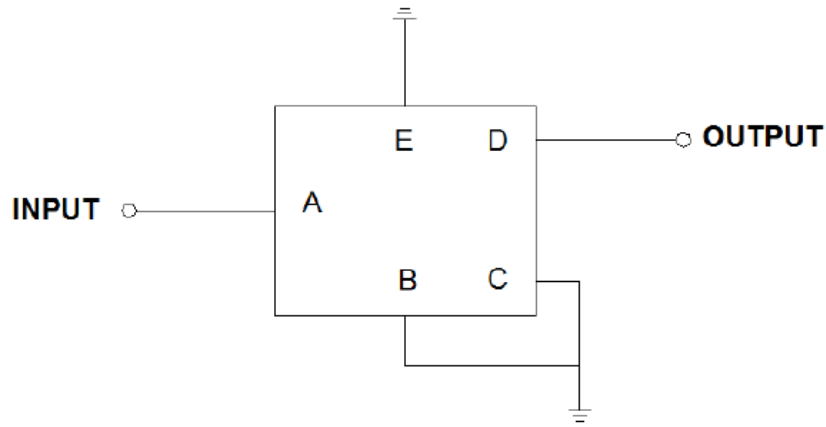
### 3.S11&S22 VSWR (span 300MHz):



### 4.S11&S22 SMITH (span 300MHz):

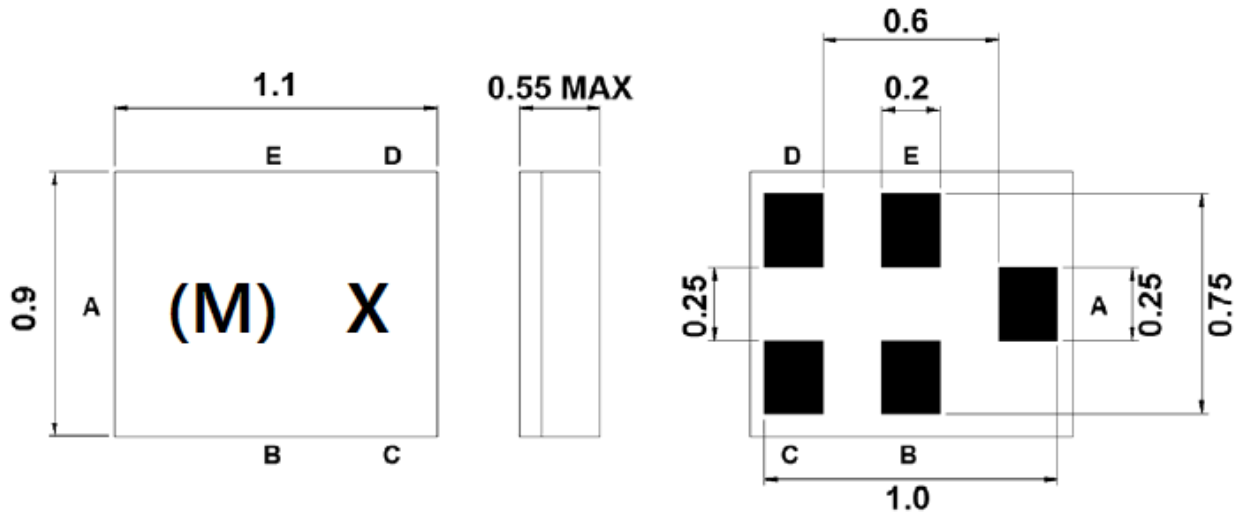


**D. MEASUREMENT CIRCUIT:**



Source & Load Impedance: 50  $\Omega$

**E. OUTLINE DRAWING:**



Pin Description	
B, C, E	Ground
A	Input
D	Output

**Marking Descriptions:**

**(M)** : Series Number

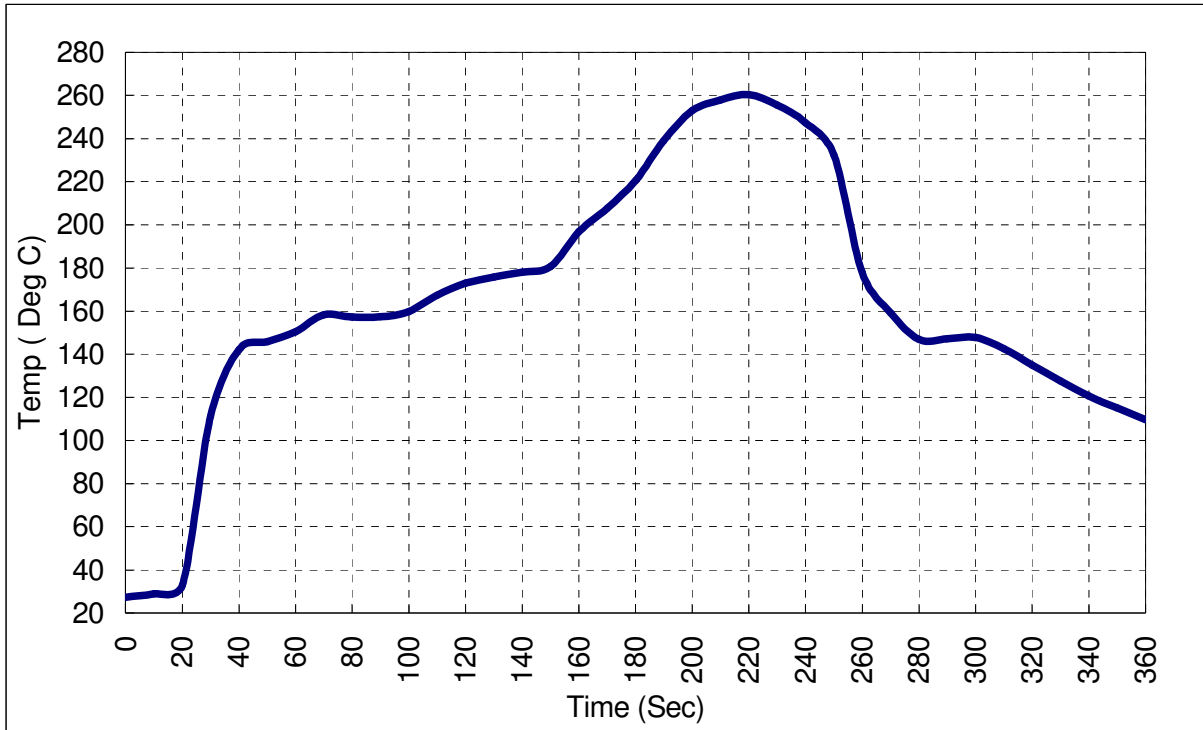
**X** : Year/Month Code (Follow the table)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<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>
2018	<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>



**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.



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[B0922J7575AHF](#) [10017-3](#) [TP-103-PIN](#) [BD1222J50200AHF](#) [BD1722J50100AHF](#) [2450DP39K5400E](#) [BD0810J50150AHF](#)