



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: SAW Rx Filter 2140MHz LTE Band 1 SMD 1109

TST Part No.: TA1845AM

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang *Michael*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/04/07

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 change

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TST DCC
Release document

FR-71S03-02



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SAW Rx Filter 2140MHz LTE Band 1 SMD 1109

MODEL NO.: TA1845AM

REV. NO.:1.0

A. MAXIMUM RATING:

1. Operating temperature range: -30 °C to +85 °C
2. Storage temperature range: -40 °C to +85 °C
3. Maximum Input Power: +10 dBm
4. Maximum DC Voltage: +/-0 V
5. Moisture Sensitivity Level: Level 1(MSL1)
6. ESD 50V(MM) 100V(HBM)



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50 \Omega$ (Single-ended)

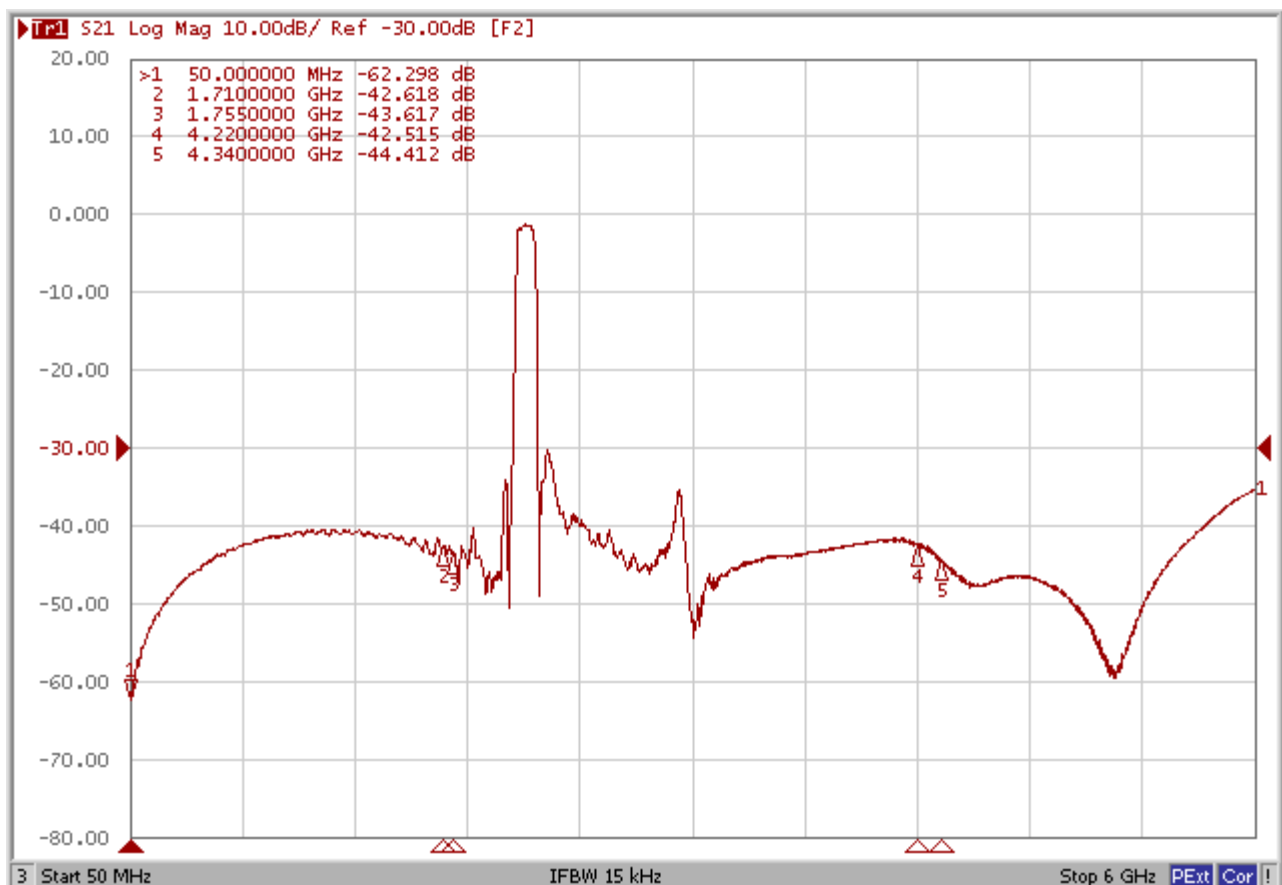
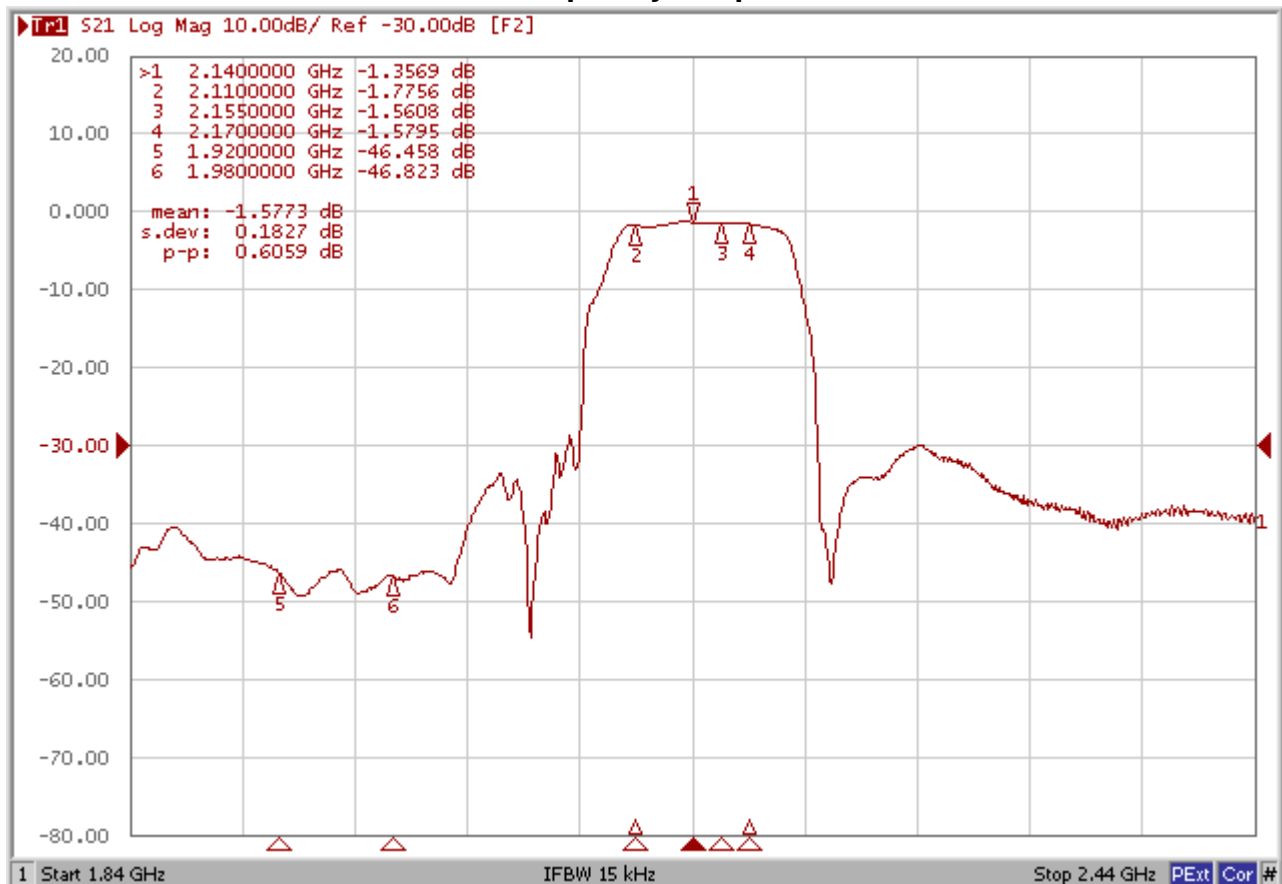
Terminating load impedance: $Z_L = 50 \Omega$ (Single-ended)

Parameters Description			Unit	Minimum	Typical	Maximum
Center Frequency			MHz	-	2140	-
Insertion Loss	2110~2170 MHz		dB	-	1.9	2.5
	2110~2155 MHz		dB	-	1.9	2.5
Amplitude Ripple	2110~2170 MHz		dBp-p	-	0.6	1.5
	2110~2155 MHz		dBp-p	-	0.6	1.5
VSWR	Input	2110~2170 MHz	-	-	1.8	2.3
	Output	2110~2155 MHz	-	-	1.8	2.3
Attenuation:						
50-1710 MHz			dB	35	40	-
1710-1755 MHz			dB	40	42	-
1920-1980 MHz			dB	42	45	-
4220-4340 MHz			dB	30	42	-

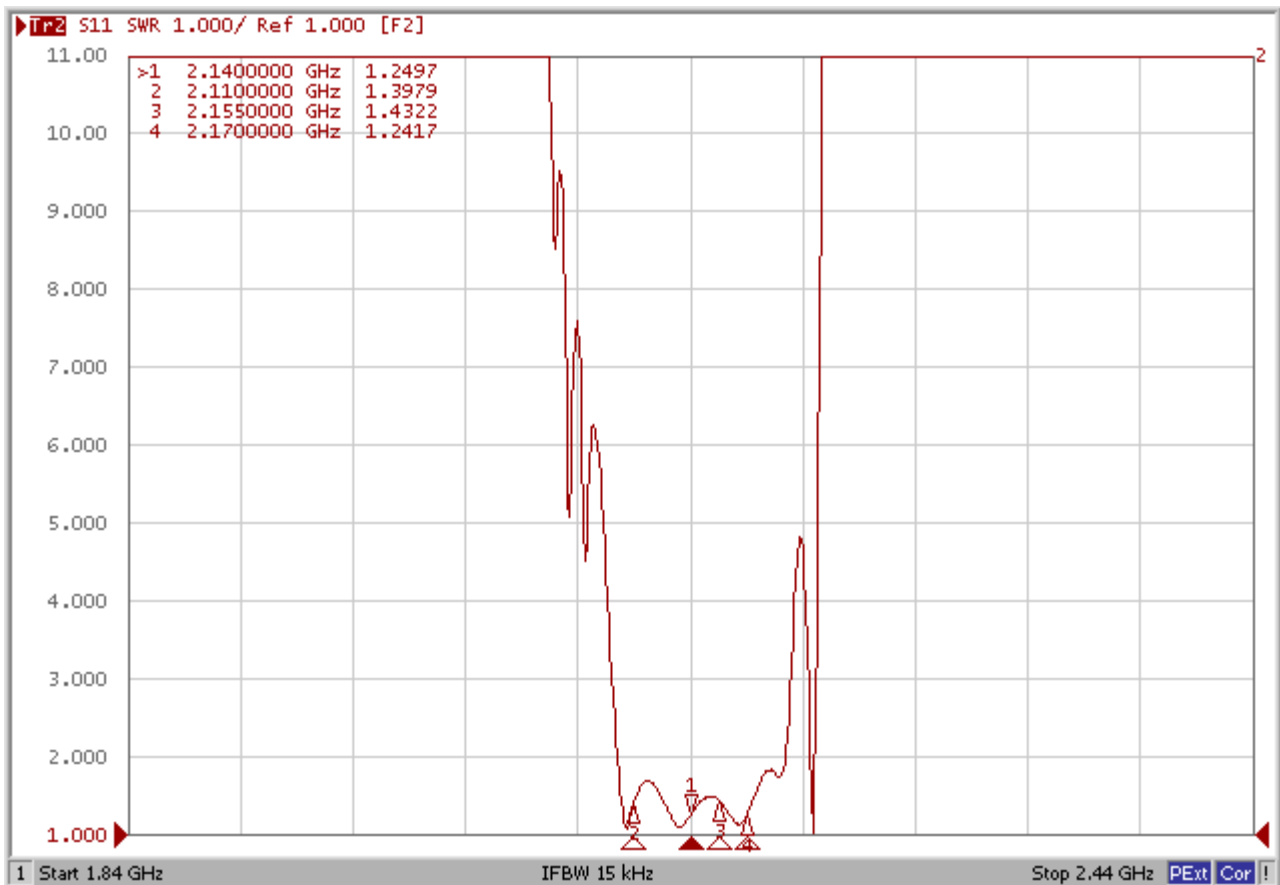
Notes : (1) No Matching Network ..

C. FREQUENCY CHARACTERISTICS:

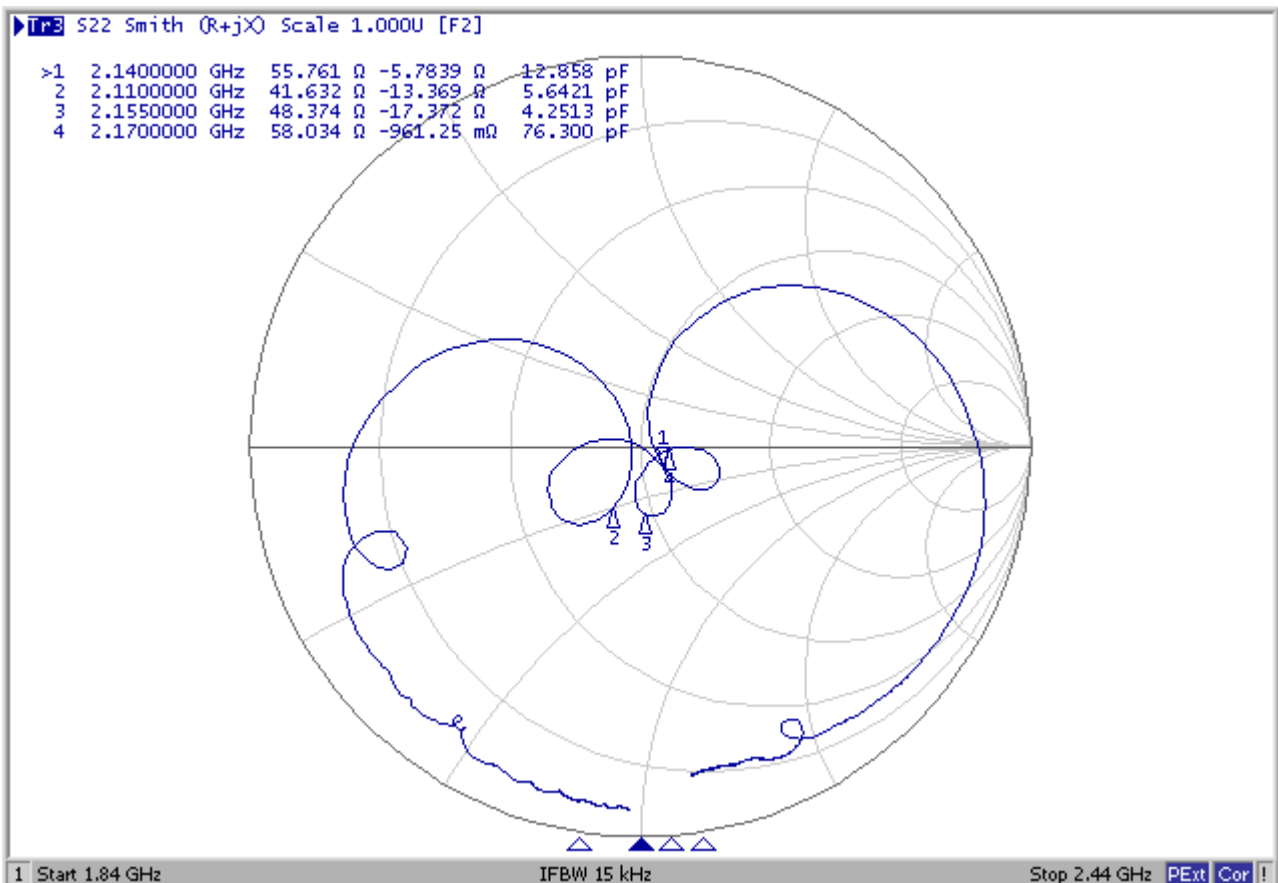
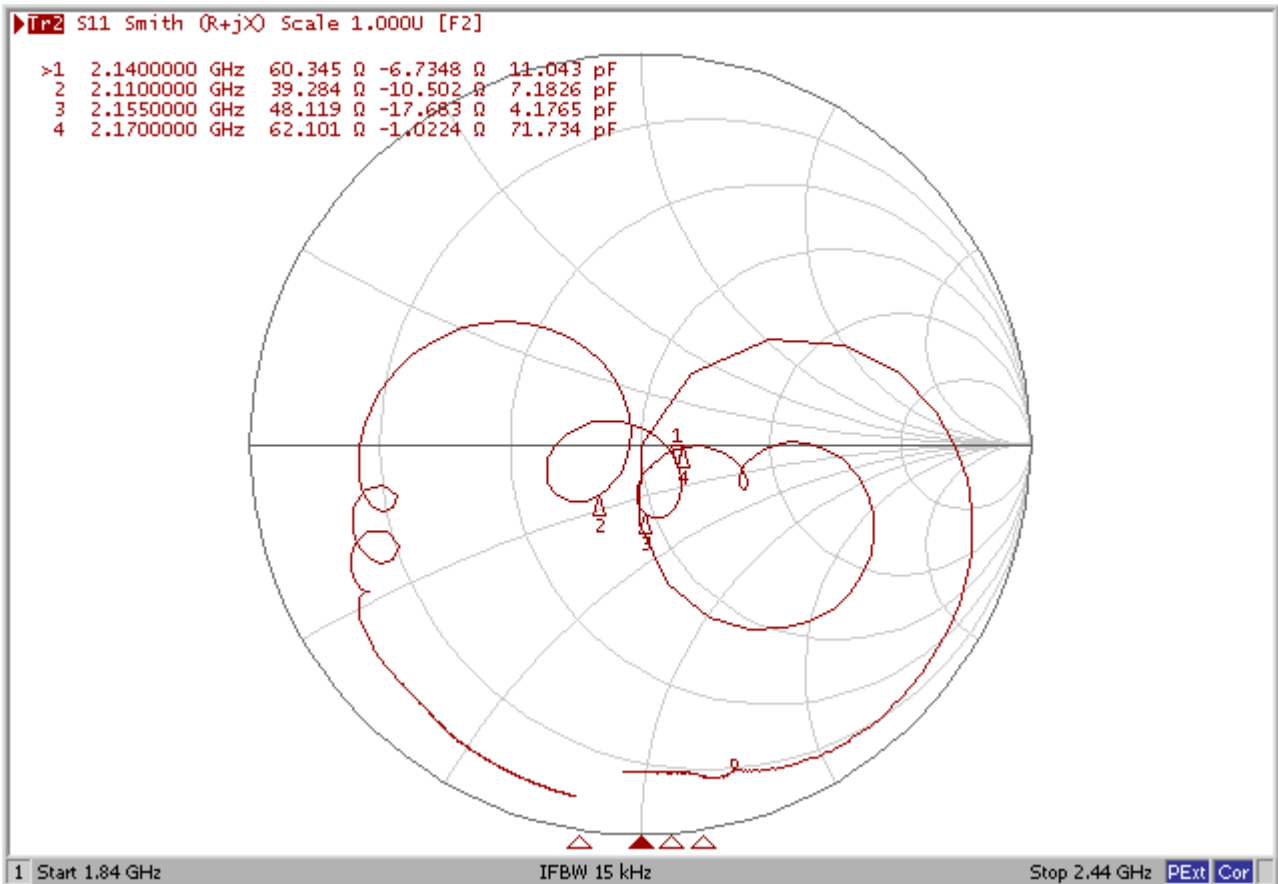
Frequency Response



VSWR



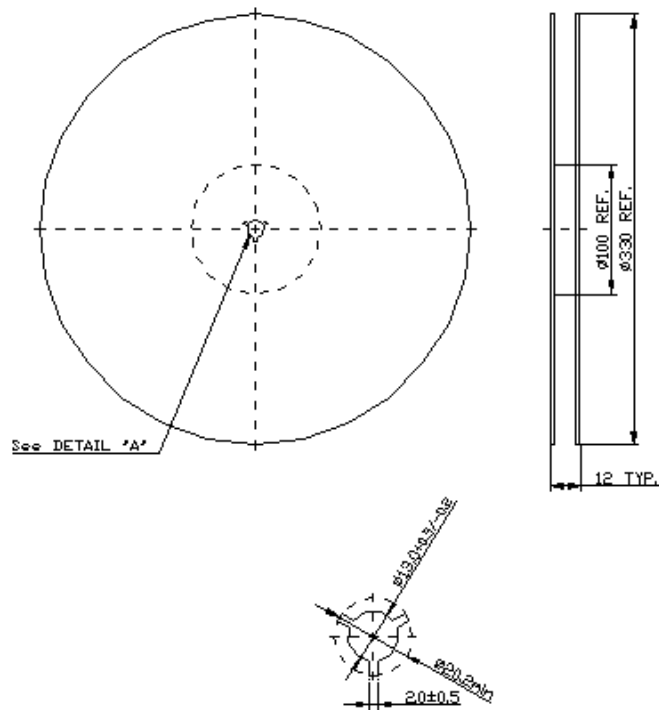
Smith Chart



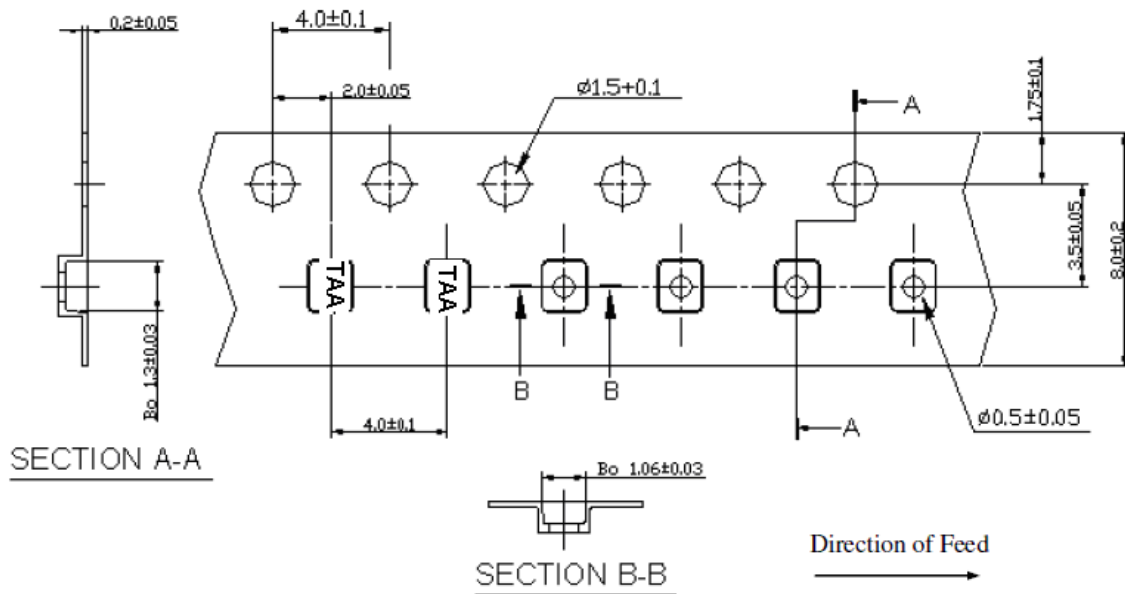
G. PACKING:

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.

