



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 Name: SAW Filter 654MHz SMD 3.8x3.8 mm (BW=32MHz)

TST Parts No.: TA2682A

Customer Parts No.: _____

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

Checked by: _____ Hong Pu Lin *Hong Pu Lin*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/10/15

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 654 MHz

MODEL NO.: TA2682A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 20 dB_m(CW for 70000hrs at 25°C)
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 1(**MSL1**)

RoHS Compliant
Lead-free soldering

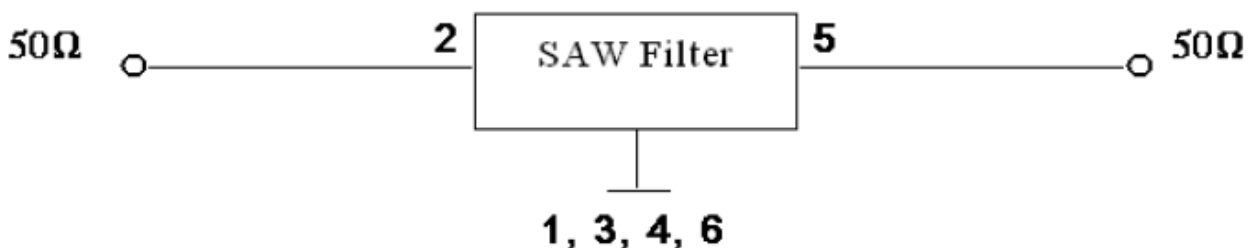
Electrostatic Sensitive Device (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	min	type	Max
Center Frequency Fc	MHz		654	
Insertion Loss 638~670MHz (0°C to +50°C)	dB		2.6	3.5
Insertion Loss 638~670MHz (-40°C to +105°C)	dB		2.6	5.0
Return Loss 638~670MHz (0°C to +50°C)	dB	12	14	
Pass band 638~670MHz	MHz	32	40	
Attenuation (Reference level from 0dB)				
10~430 MHz	dB	50	55	
430~580 MHz	dB	45	51	
740~1100 MHz	dB	42	45	
1100~1250 MHz	dB	42	45	
Temperature Coefficient of Frequency	ppm/°C	-75 typ		

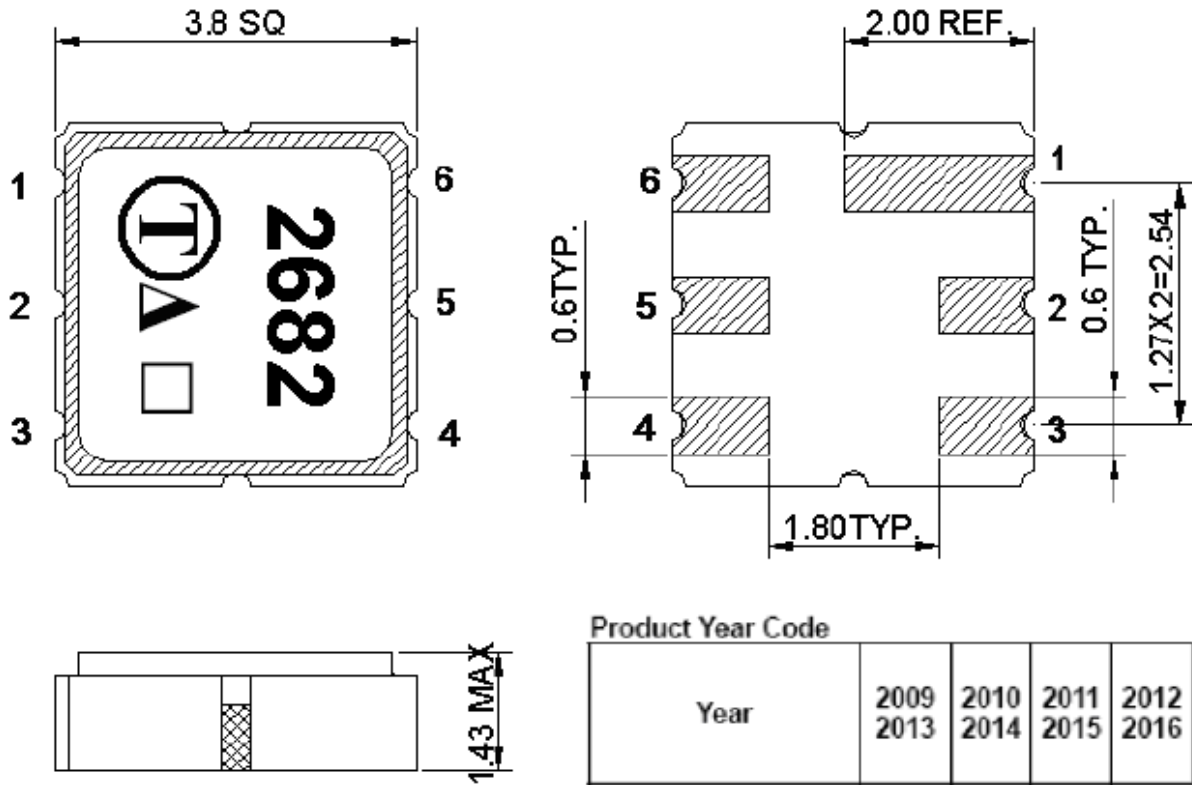
C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:

New



Product Year Code

Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	A	a	A	a

Unit: mm

△: Year Code

□: Date Code

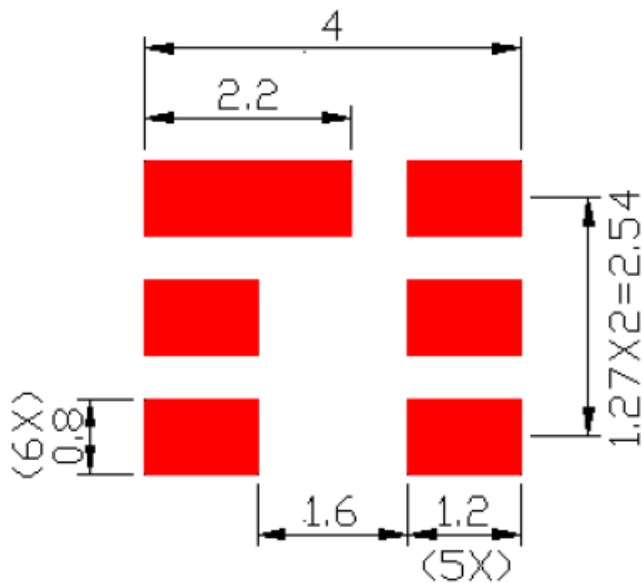
Date Code Table:

Input: 2

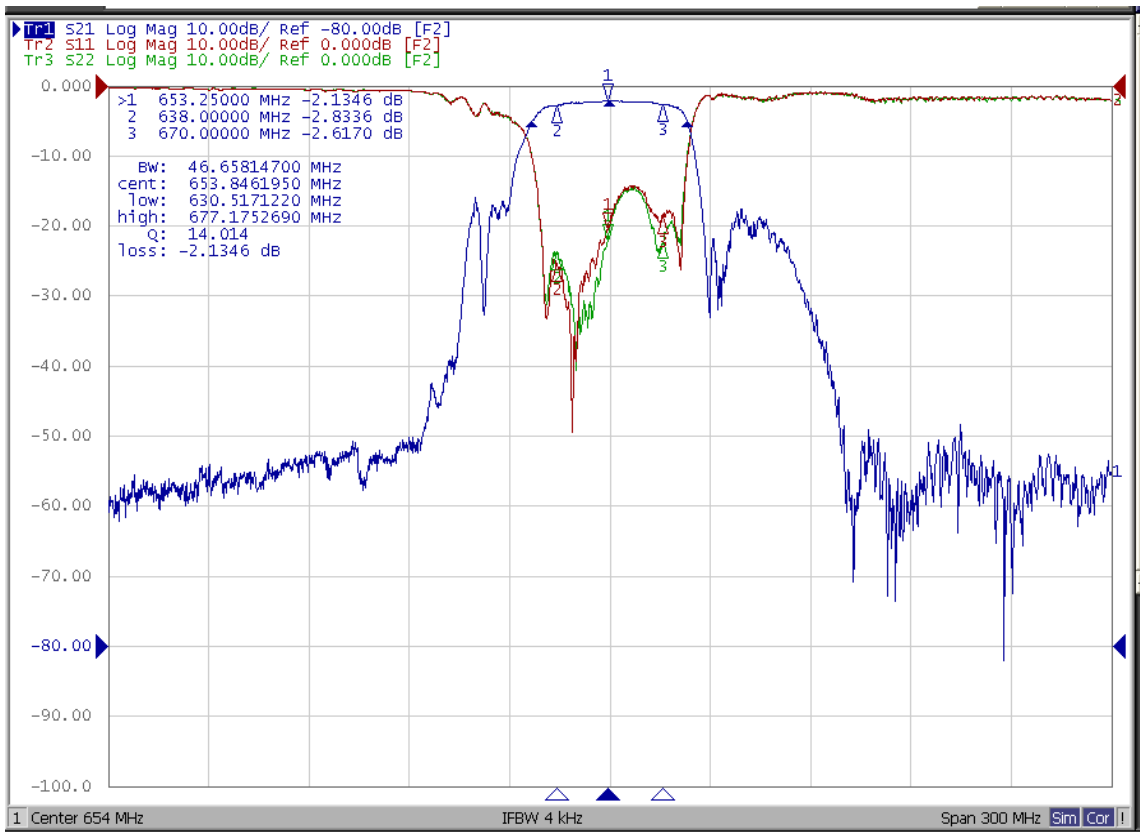
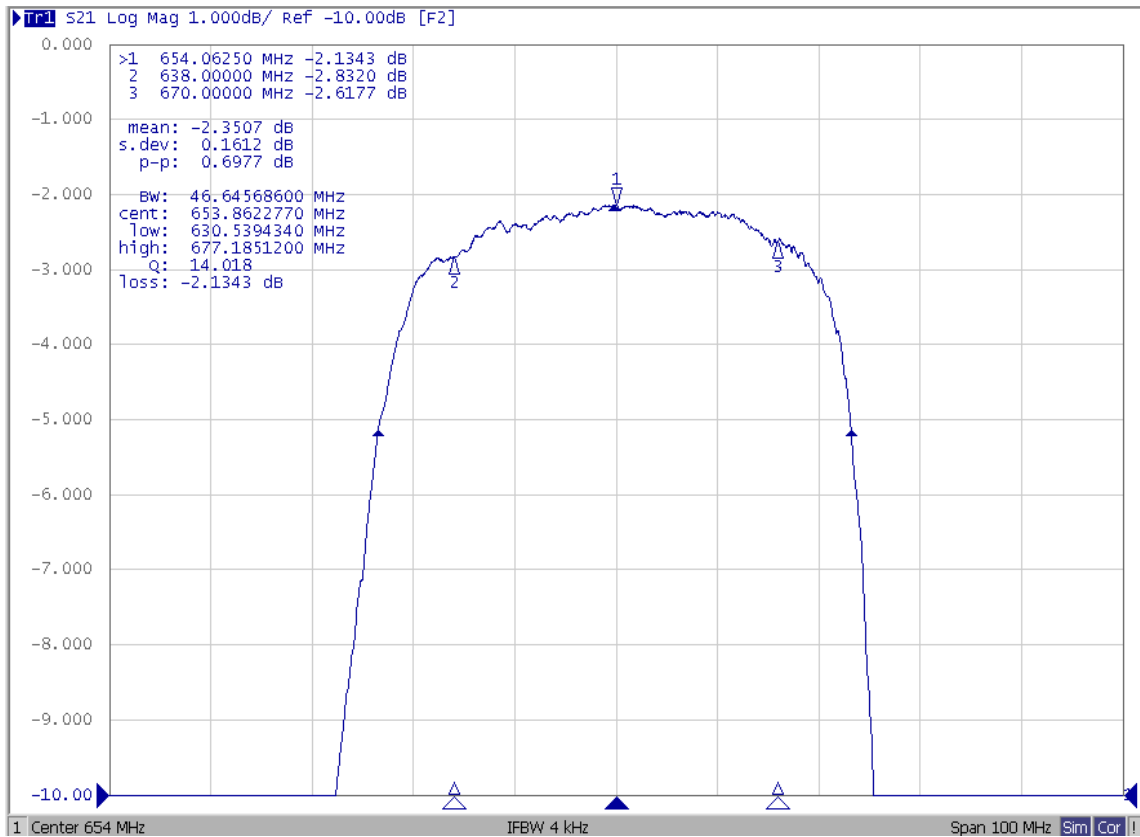
Output: 5

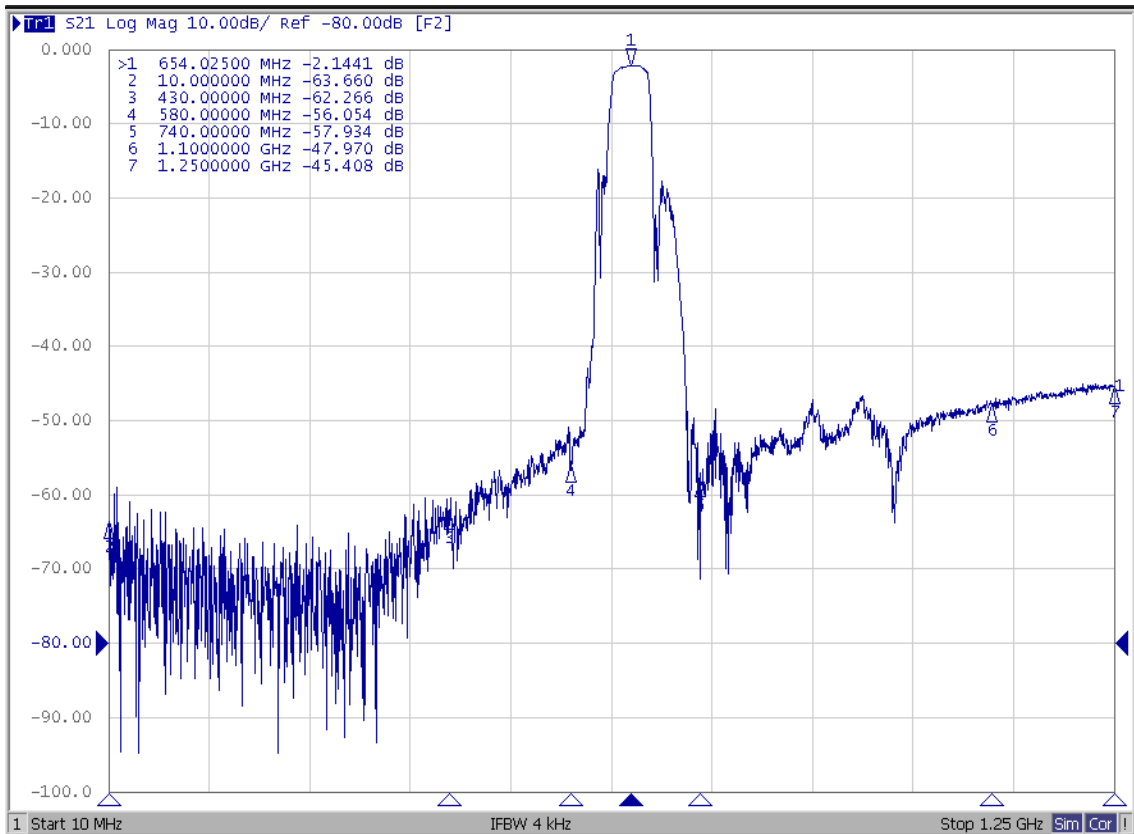
Ground: 1, 3, 4, 6

E. PCB Footprint:



F. Frequency Characteristics:

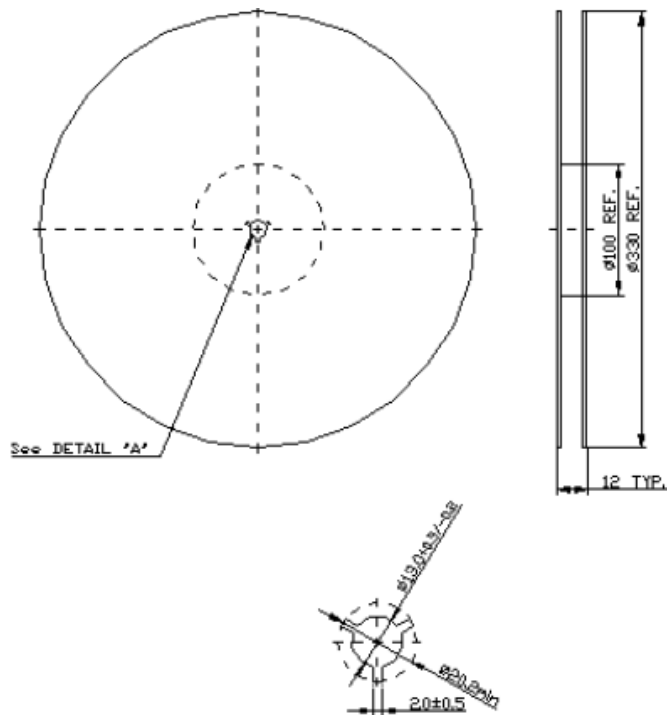




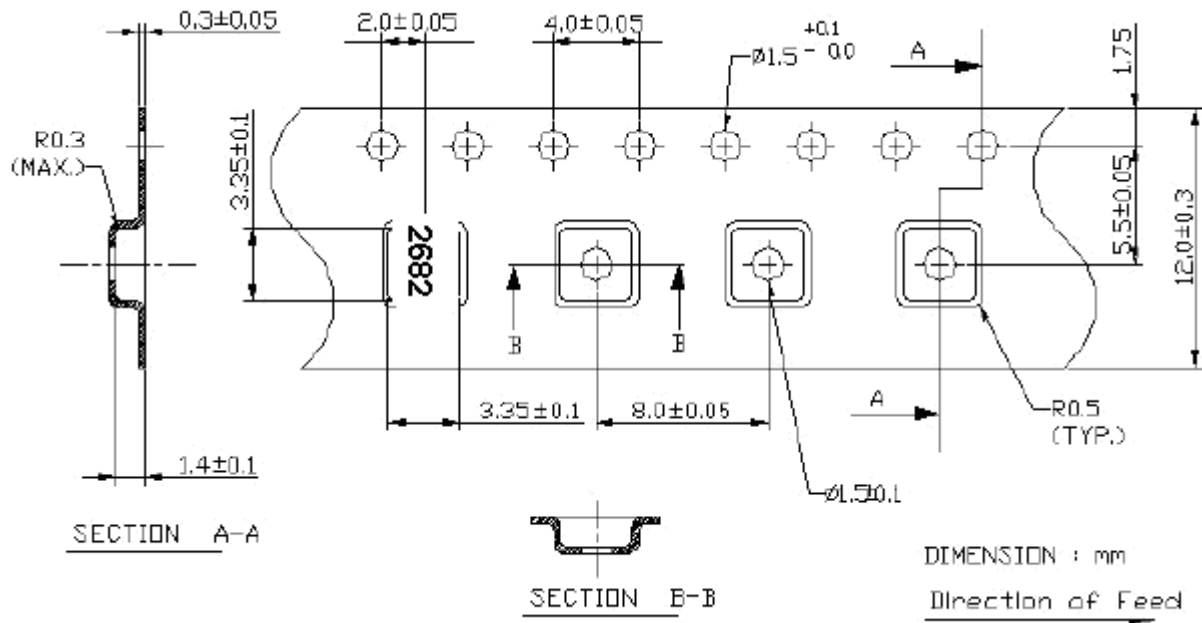
G. PACKING: (Ref. WI-75M03)

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.

