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Product Specifications Approval Sheet

Product Name: SAW Filter 612MHz SMD 3.8x3.8 mm (BW=150KHz)

TST Parts No.: TB1361A

Customer Parts No.: _____

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

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

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/11/30

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

SAW Filter 612 MHz

MODEL NO.: TB1361A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -55°C to +125°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

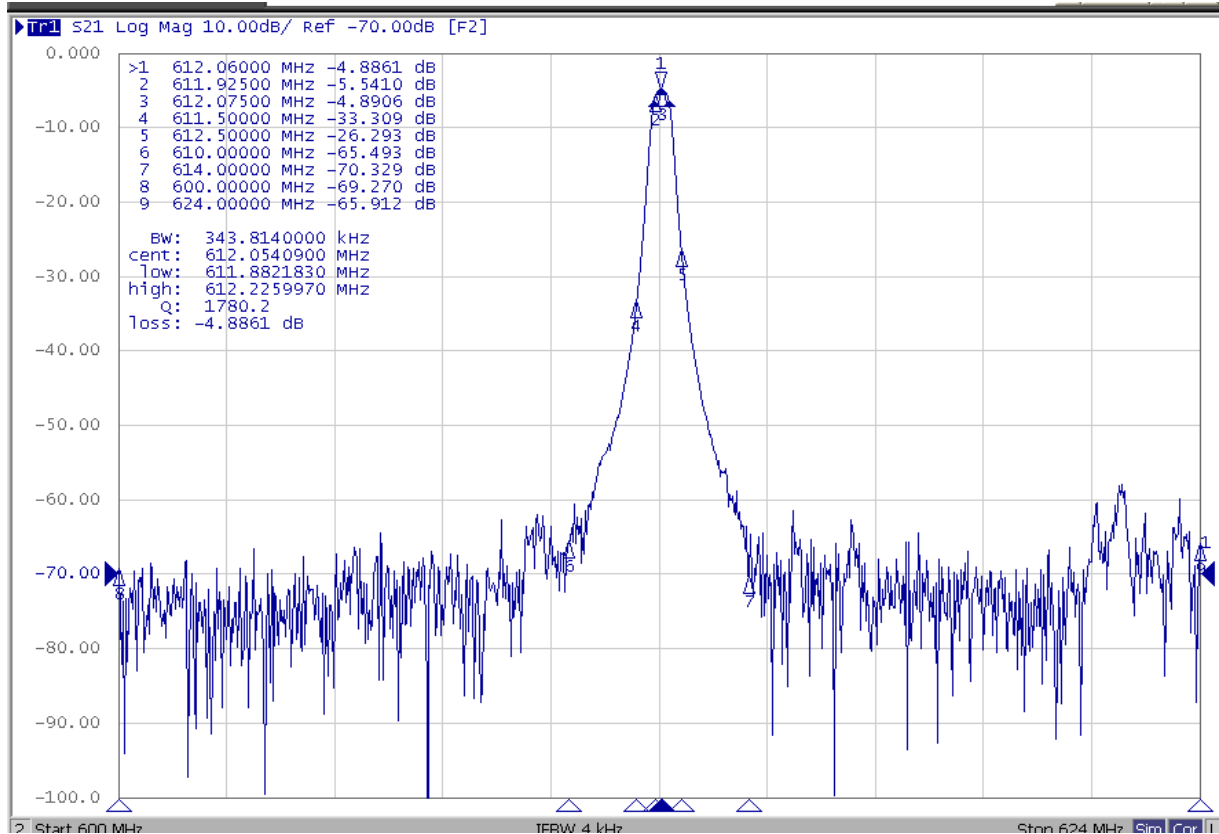
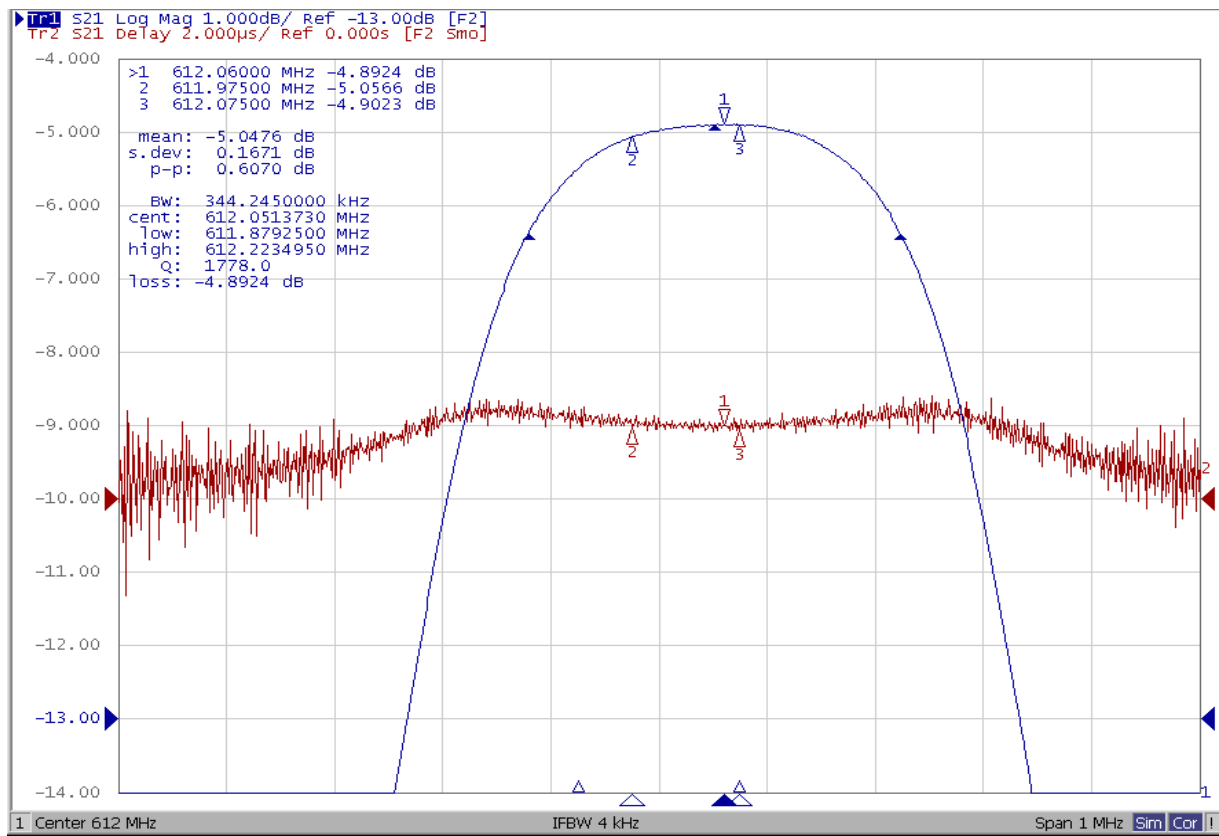
Lead-free soldering

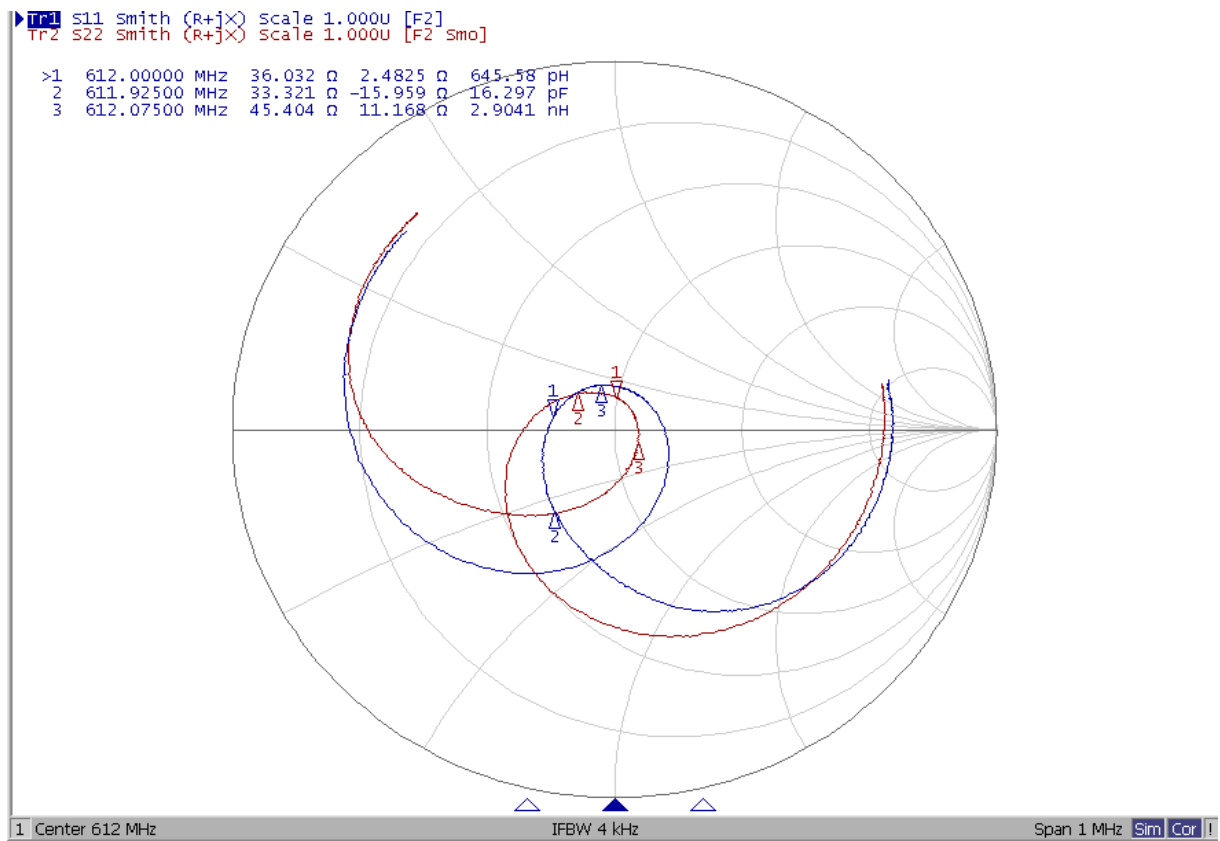
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Typ	Max
Center Frequency F_c	MHz		612	
Minimum insertion loss IL_{min}	dB		4.88	7
Group Delay Ripple (611.925 ~ 612.075 MHz)	ns		343	1500
Amplitude Ripple (611.925 ~ 612.075 MHz)	dB		0.66	2.3
2dB BW	MHz		0.38	
Attenuation (Reference level from IL_{min})				
610.0 ~ 611.5 MHz	dB	10	28	
612.5 ~ 614 MHz	dB	10	21	
600.0 ~ 610.0 MHz	dB	45	55	
614.0 ~ 624.0 MHz	dB	45	51	
Source Impedance	ohm	50		
Load Impedance	ohm	50		
Temperature Coefficient of Frequency	ppm/°C ²	-0.036 typ		

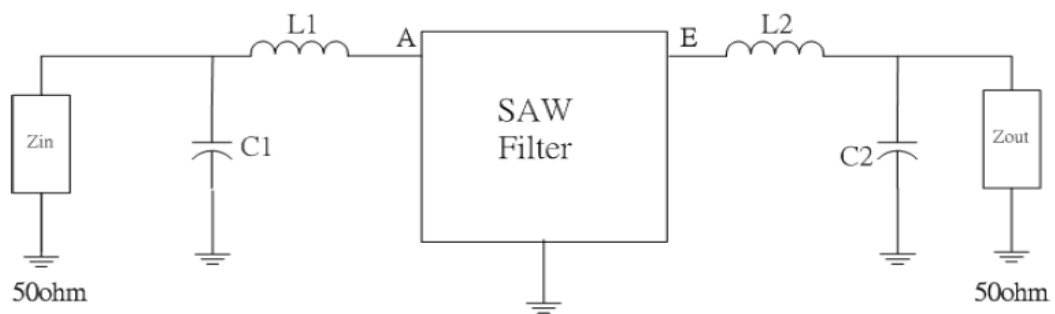
C. FREQUENCY CHARACTERISTICS:





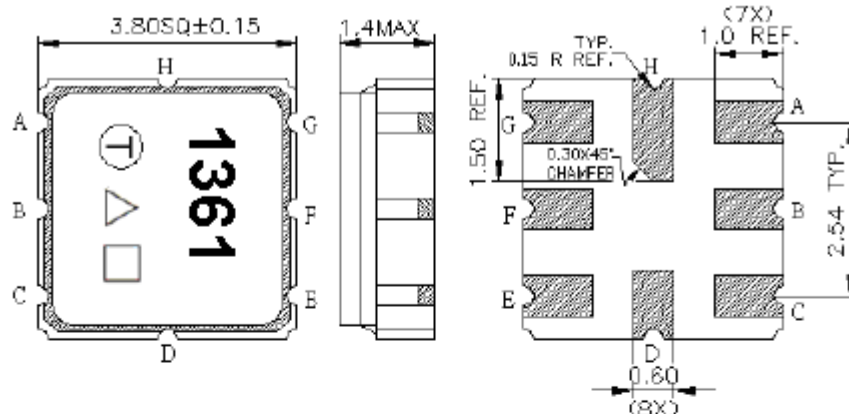
D. MEASUREMENT CIRCUIT:

50 Ohm Test circuit (single-ended / single-ended)



$$C1=4\text{pF} \cdot L1=39\text{nH} \cdot L2=39\text{nH} \cdot C2=4\text{pF}$$

E. OUTLINE DRAWING:



#A Input
#B Input ground
#E Output
#F Output ground
#C, D, G, H To be grounded
△ Year code
□ Date code
Unit mm

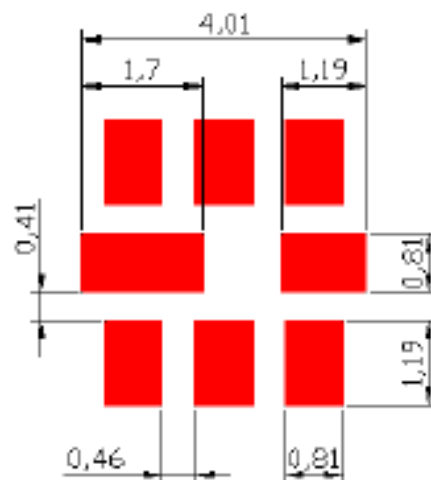
△ : Product Year Code

Year	2013	2014
	2015	2016
	2017	2018
	2019	2020
	Product Code	B

 : Data Code

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK16	WK18	WK17	WK18	WK18	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

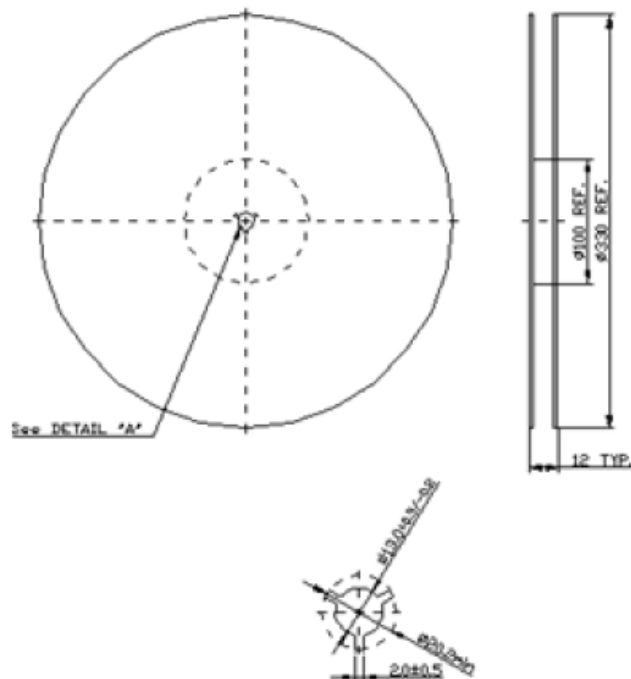
F. PCB FOOTPRINT:



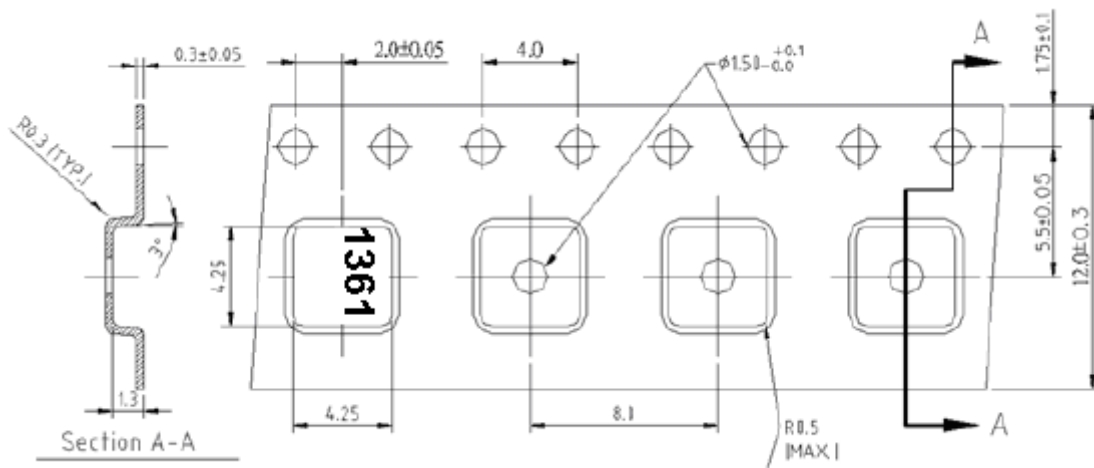
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. Recommended Reflow Profile:

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ for $60 \sim 90$ seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for $50 \sim 80$ seconds and at $260^\circ\text{C} + 0/-5^\circ\text{C}$ peak ($20 \sim 40$ sec).
4. Time: 2 times.

