FAX: 886-3-4697532 TEL: 886-3-4690038

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

# **Product Specifications Approval Sheet**

Product Description: SAW Filter 861MHz SMD 3.8×3.8mm							
TST Parts	S No.:TA0452A						
Custome	Parts No.:						
Comp	oany:						
Divisi	on:						
Appro	oved by :						
Date							
			1 Chan				
Checked	by:	Anne Chen	from pen				
Checked by:		Andy Yu	Andy In				
Date:		2019/07/22					

- 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 861 MHz

MODEL NO.: TA0452A REV. NO.:2.0

#### A. MAXIMUM RATING:

1. Input Power Level: 15 dB<sub>m</sub>

2. 2.DC voltage: 5 V

3. Operating Temperature: -10°C to 60°C 4. Storage Temperature: -40°C to +85°C

5. Moisture Sensitivity Level: Level 1(MSL1)

**RoHS Compliant** Lead free Lead-free soldering

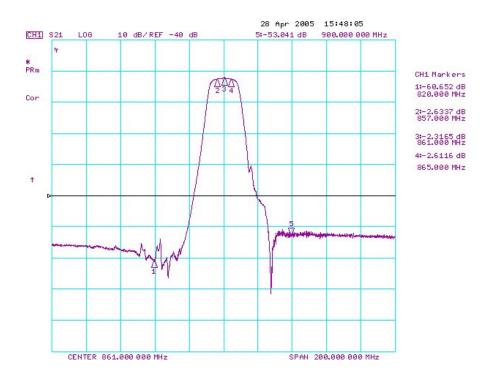
Electrostatic Sensitive Device

#### **B. CHARACTERISTICS:**

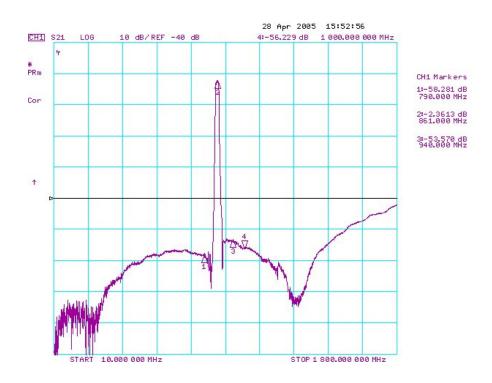
	Item	Min.	Тур.	Max.		
Center frequency	Fc	MHz		-	861	-
Insertion loss	857 ~ 865	MHz <b>IL</b>	dB	-	2.7	4.2
Amplitude ripple	857 ~ 865	MHz	dB	-	0.4	2.0
VSWR	857 ~ 865	MHz		-	1.4	2.2
Attenuation						
10.0 ~ 790.0		MHz	dB	40	55	-
790.0 ~ 820.0		MHz	dB	36	54	-
900.0 ~ 920.0		MHz	dB	35	50	-
920.0 ~ 940.0		MHz	dB	36	51	-
940.0 ~ 1000.0		MHz	dB	40	51	-
Source impedance		Zs	Ω	-	50	-
Load impedance	ZL	Ω	-	50	-	

Note1. No matching network required for operation at  $50\Omega$ 

## **C. TRANSFER FUNCTION:**

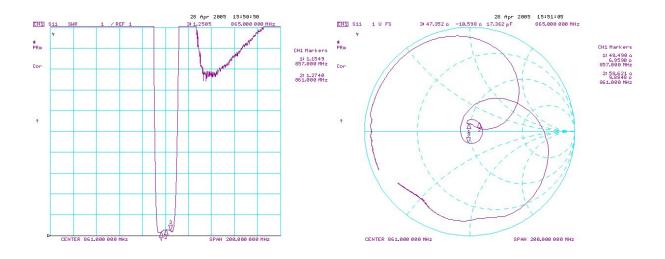


# Wideband

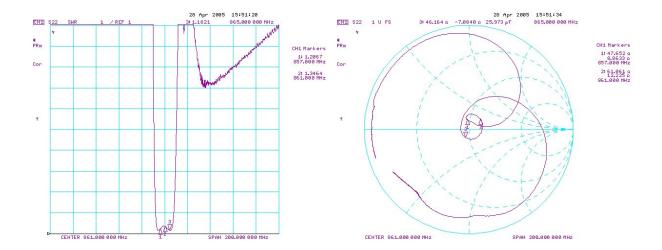


#### **D. REFLECTION FUNCTIONS:**

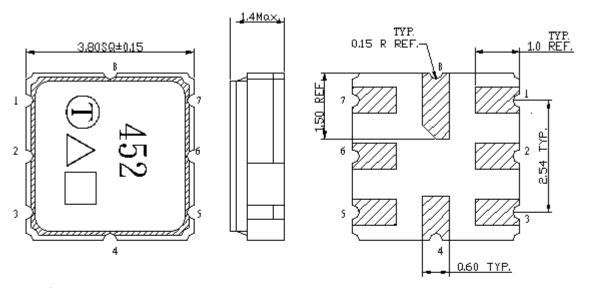
## S11



#### S22



#### **E.OUTLINE DRAWING:**



#2: Input

#6: Output

#1, 3, 4, 5, 7, 8 : Ground

△: Year code

□: Date code

Unit: mm

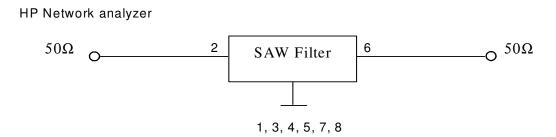
# Product / Year Code- 4year cycle

Year	2019 2021	2020 2022		
Product Code	A	а		

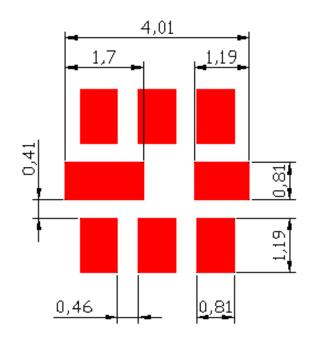
## Week Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	Н	I	J	K	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	I	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	S	t	u	V	w	х	у	z

## F. MEASUREMENT CIRCUIT:

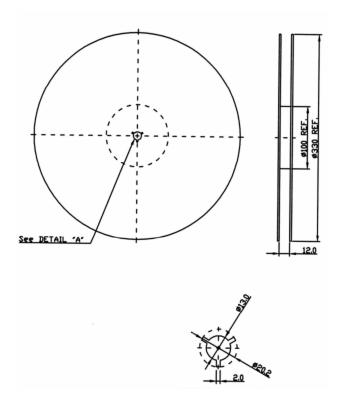


## **G. PCB FOOTPRINT:**

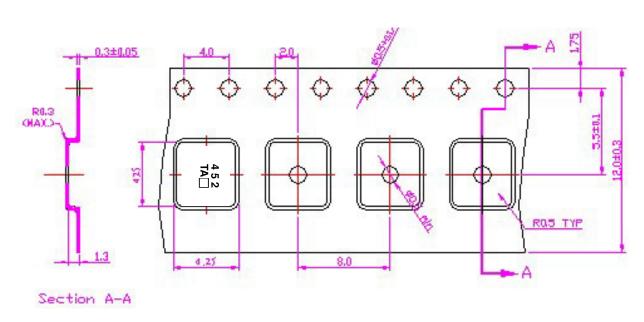


## H. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)



# 2. TAPE DIMENSION



Direction of Feed

#### I. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 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.

