

TAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, 324, Taiwan, R.O.C. TEL: 886-3-4690038 FAX: 886-3-4697532 E-mail: <u>tstsales@mail.taisaw.com</u> Web: <u>www.taisaw.com</u>

Product Specifications Approval Sheet

Product Description: SAW Filter 421.9 MHz SMD 3.0×3.0 mm (BW=2 MHz)

TST Part No.: TA1638A

Customer Part No.:_____

Customer signature	required	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	David Chang	Dark
Approved by:	Bob Chau	pleilm
Date:	2014/09/22	

- 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 421.9 MHz

MODEL NO.: TA1638A

A. MAXIMUM RATING:

- 1. Input Power Level: 20 dBm
- 2. DC Voltage : 7.5 V
- 3. Operating Temperature: -40°C to +85°C
- 4. Storage Temperature: -40°C to +85°C



REV. NO.:2

Lead free Lead-free soldering

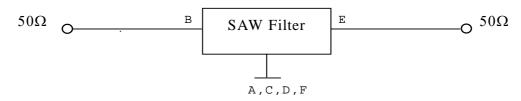
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

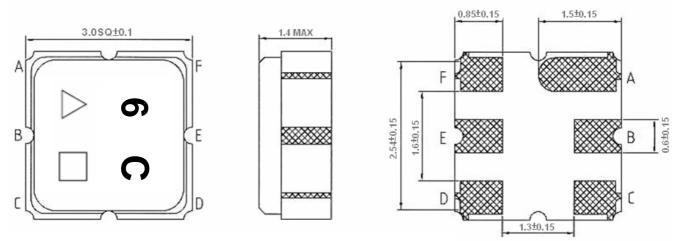
Item		Unit	Min.	Туре.	Max.			
Center frequency	Fc	MHz	-	421.9	-			
Insertion Loss (420.9~422.9 MHz)	IL	dB	-	1.7	3.0			
Amplitude Ripple (420.9~422.9 MHz)		dB	-	0.3	1.2			
VSWR (420.9~422.9 MHz)		-	-	1.4	2.2			
Attenuation (Reference level from 0 dB)								
10 ~ 380 MHz		dB	55	67	-			
380 ~ 405 MHz		dB	45	55	-			
440 ~ 450 MHz		dB	30	41	-			
450 ~ 700 MHz		dB	50	56	-			
700 ~ 1000 MHz		dB	42	55	-			
Temperature coefficient of frequency	ppm/k	-	-36	-				

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



B: Input

E: Output A, C, D, F: Ground

Unit: mm

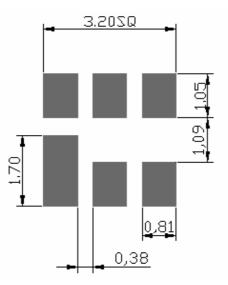
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□: Date Code

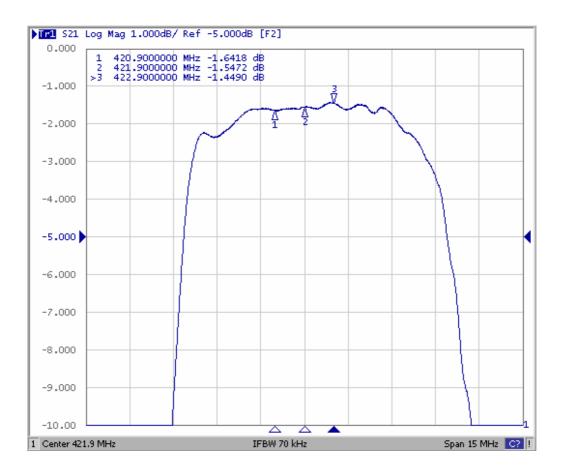
Date Code Table:

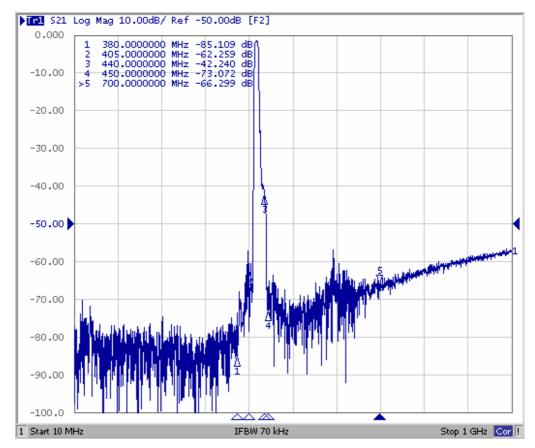
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	В	С	D	E	F	G	Н	i.	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Ρ	Q	R	S	Т	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	- I	m
WK40	WK41	WK42	WK43	WK44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

F. PCB Footprint:



F. Frequency Characteristics:



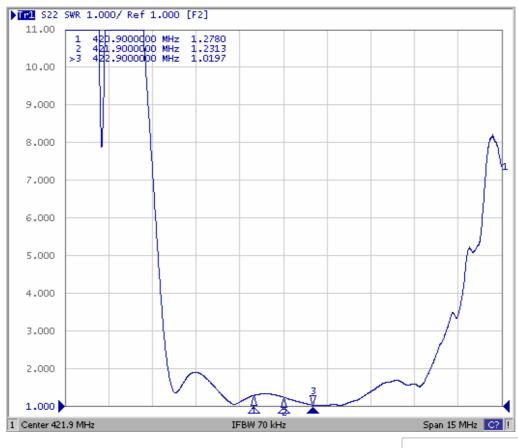


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Reflection Functions:





S22

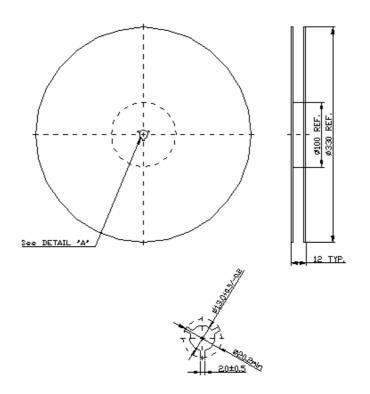
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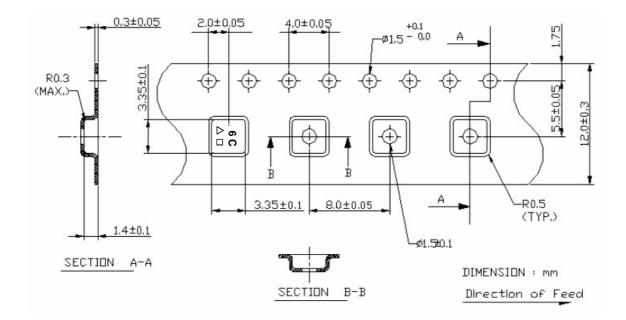
G. <u>PACKING:</u>

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at $150 \sim 180^{\circ}$ 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 50~80 seconds and at 250 ± 10 °C peak (max. 10sec).
- 4. Time: 2 times.

