



# 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 Description: 389.7MHz 8MHz BW SMD 3.0 x 3.0 mm SAW RF Filter

TST Part No.: TA1829A

Customer Part No.: \_\_\_\_\_

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: \_\_\_\_\_ Kazuma Lee *Kazuma Lee*

Approved by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 1/31/2018

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 389.7 MHz

MODEL NO.: TA1829A

REV. NO.:2

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: : -30°C to +85°C
4. Storage Temperature: -55°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device

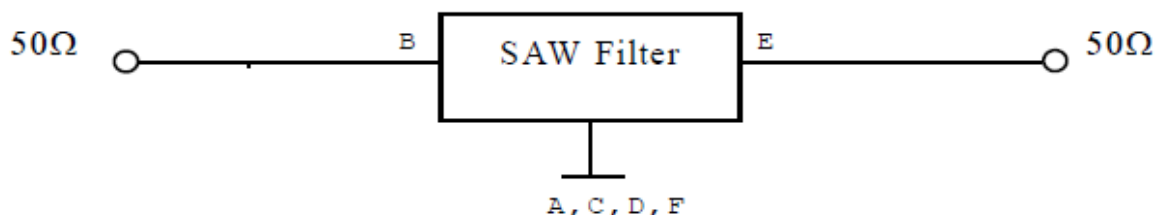
### B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	389.7	-
Insertion Loss (385.7~393.7 MHz)	dB	-	2.6	4.0
Ripple (385.7~393.7 MHz)	dB	-	0.6	2.0
Absolute Attenuation:(Reference level from 0dB)				
0.3 ~ 368.7 MHz	dB	35	55	-
428.7 ~ 700 MHz	dB	35	48	-
Source impedance Z <sub>s</sub>	Ω	-	50	-
Load impedance Z <sub>L</sub>	Ω	-	50	-

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



## D. FREQUENCY CHARACTERISTICS :

### 1. Wideband response

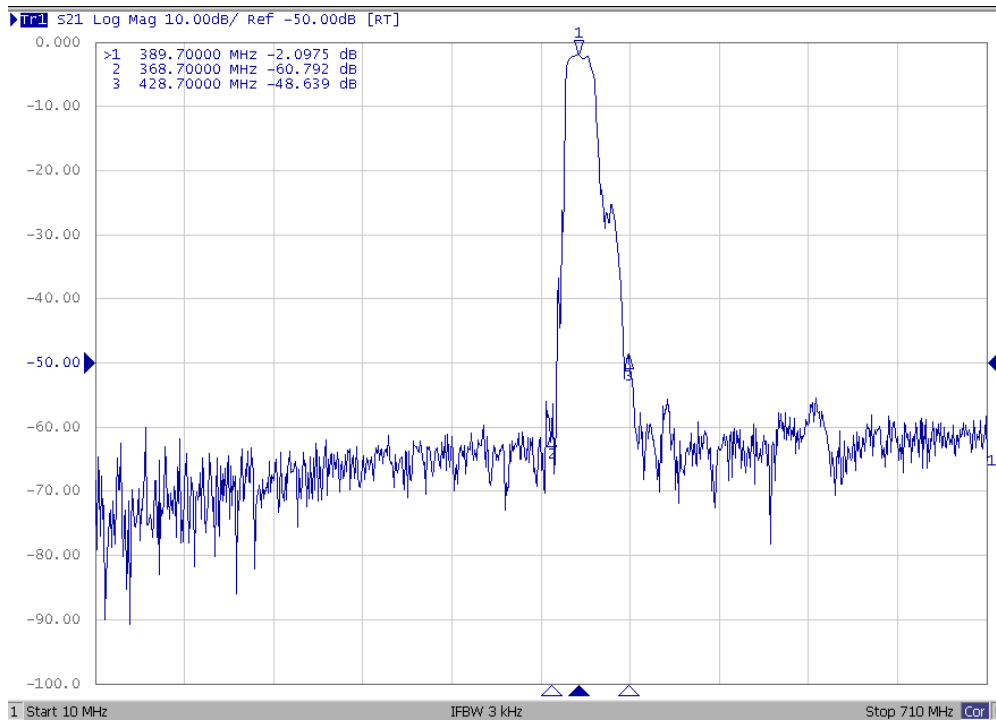


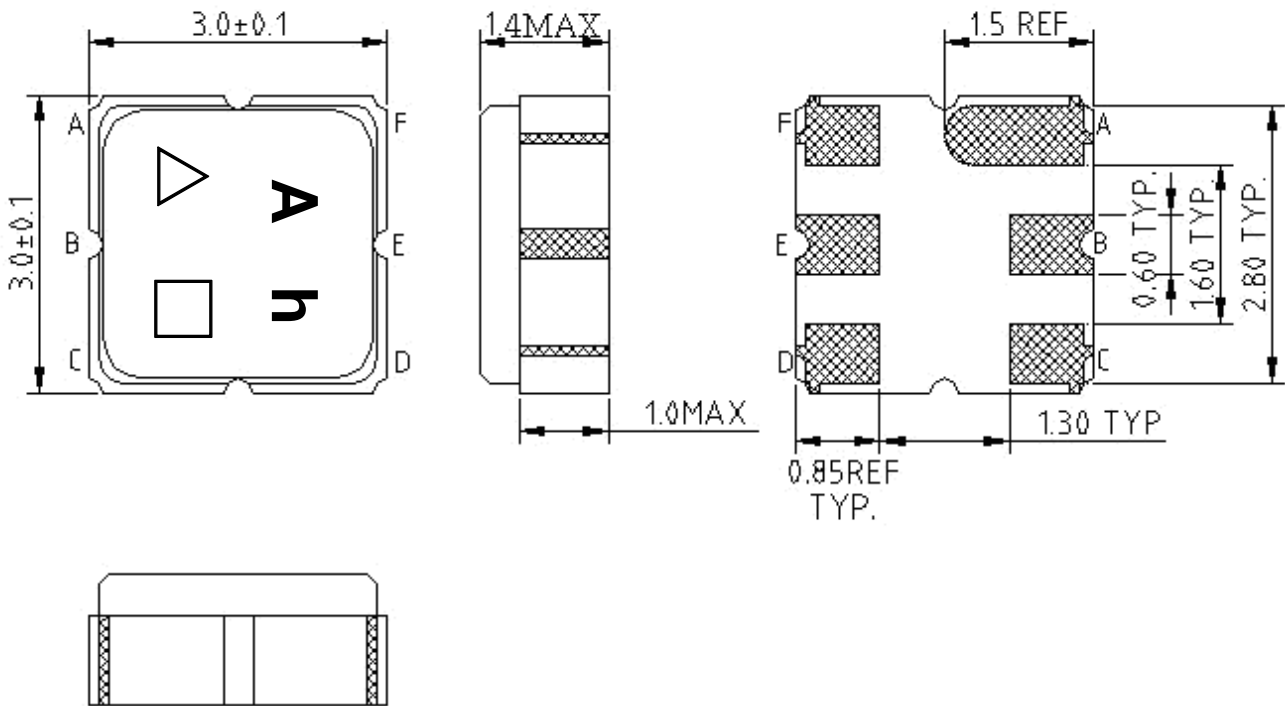
Fig1. Horizontal: 70MHz/Div Vertical: 10dB/Div

### 2. Narrowband response



Fig2. Horizontal: 4MHz/Div Vertical: 1dB/Div

**E.OUTLINE DRAWING:**



- #B: Input
- #E: Output
- #A,C,D,F: Ground
- △: Year code
- : Date code
- Unit: mm

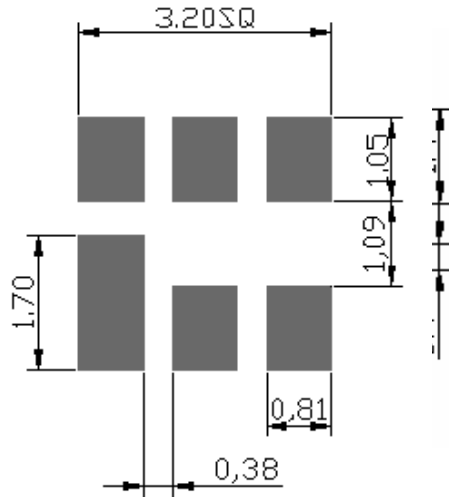
△ Year code :

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	2020	2021	2022	2023	2024	2025	2025	2027	2028	2029
Code	0	1	2	3	4	5	6	7	8	9

□ 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	WK15	WK16	WK17	WK18	WK19	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

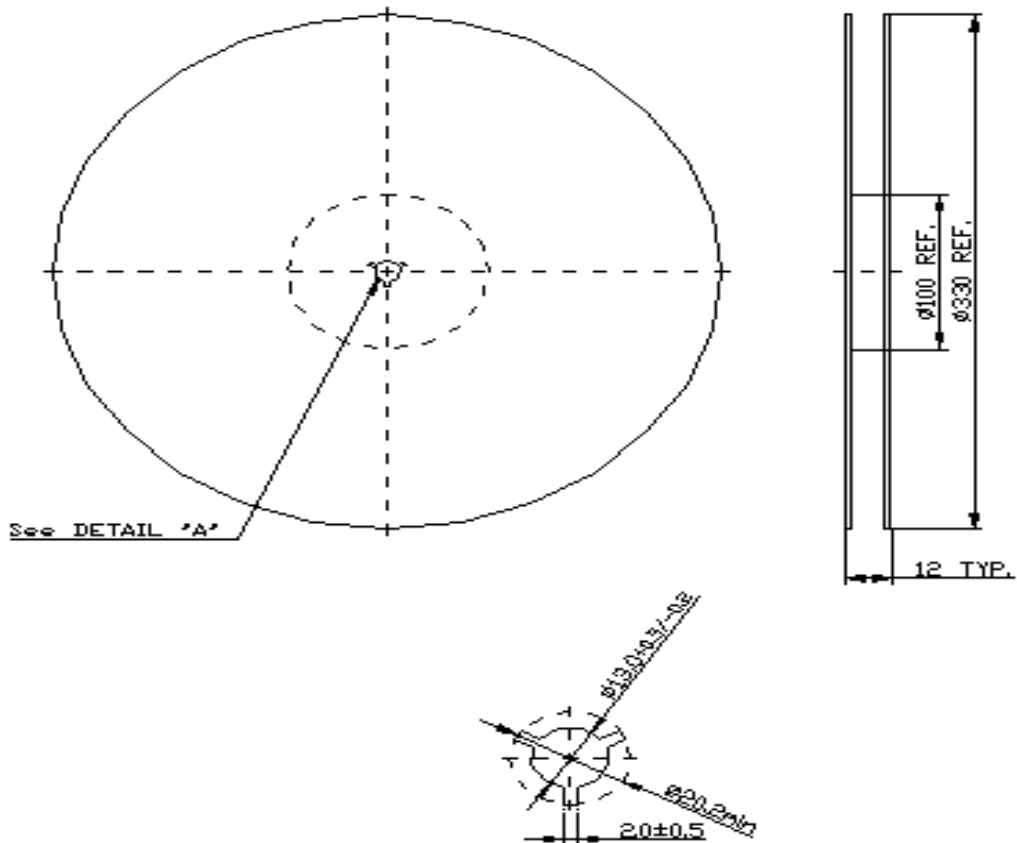
**F. PCB FOOTPRINT :**



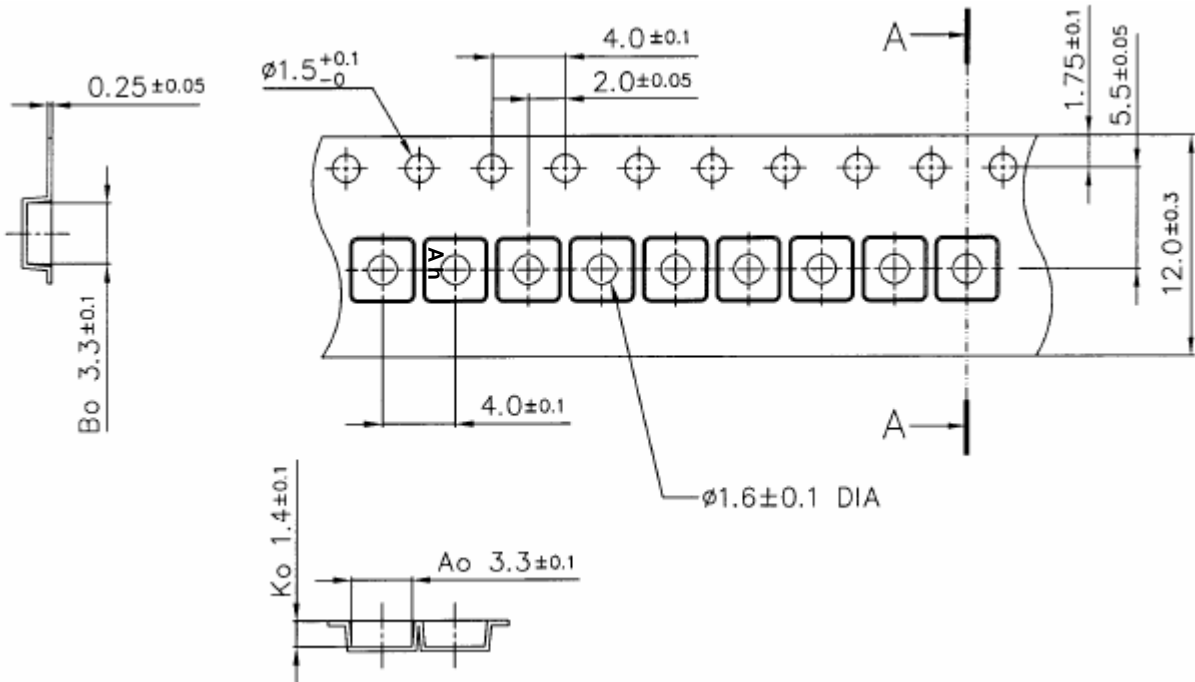
**G. PACKING:**

**1. REEL DIMENSION**

(Please refer to FR-75D10 for packing quantity and FR-75M03 for MSL)



## 2. TAPE DIMENSION



### H. RECOMMENDED REFLOW PROFILE:

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

