



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW IF Filter 374 MHz SMD 3.8×3.8 mm (BW=17 MHz)

TST Parts No.:TB0221A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

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

Approval by:_____ Andy Yu *Andy Yu*

Date:_____ 2018/6/13

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 374MHz

MODEL NO.:TB0221A

REV. NO : 2.0

A. MAXIMUM RATING:

1. Input Power Level: 10dB_m
2. Operating Temperature: -10°C to +85°C
3. Storage Temperature: -40°C to +85°C
4. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

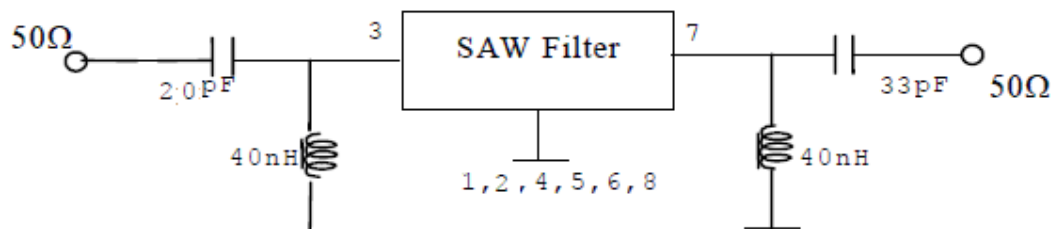
B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

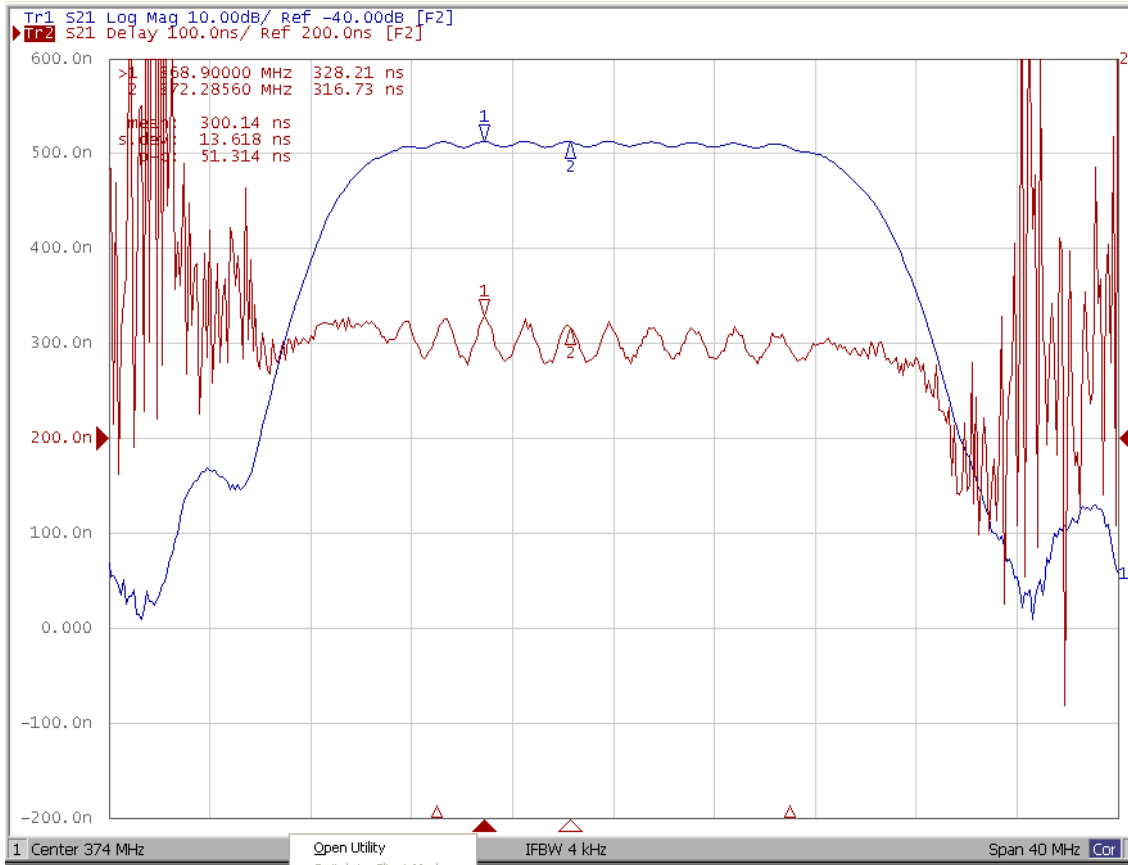
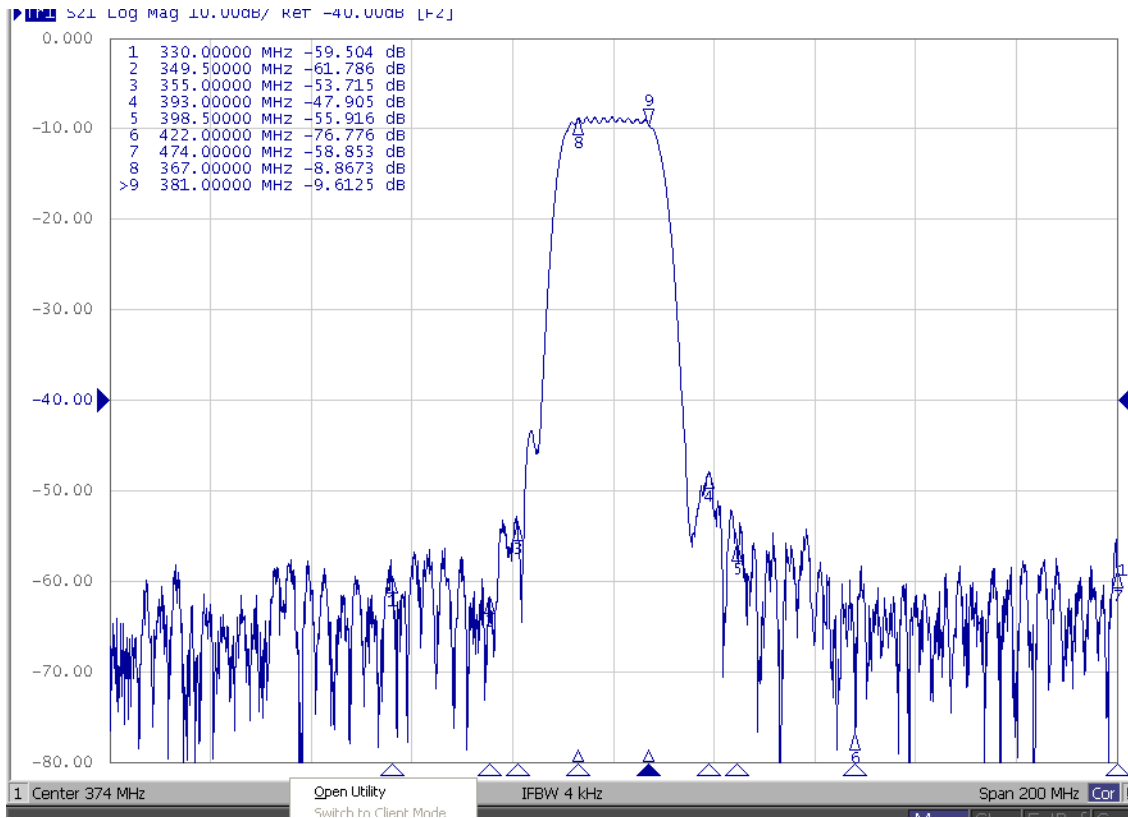
Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	374	-
Insertion Loss	IL dB	-	8.8	10
Amplitude Ripple (367~381 MHz)	dB		0.84	1.5
Group delay ripple(367~381 MHz)	nS		50	100
Pass band BW_{3dB}	MHz	17	18.9	-
Attenuation:(Reference level from Min IL)				
274MHz to 330MHz	dB	40	48	-
230MHz to 349.5MHz	dB	40	47	
349.5MHz to 355MHz	dB	30	43	
393 MHz to 398.5MHz	dB	30	39	
398.5 MHz to 422MHz	dB	35	44	
422 MHz to 474MHz	dB	40	49	-

C. MEASUREMENT CIRCUIT:

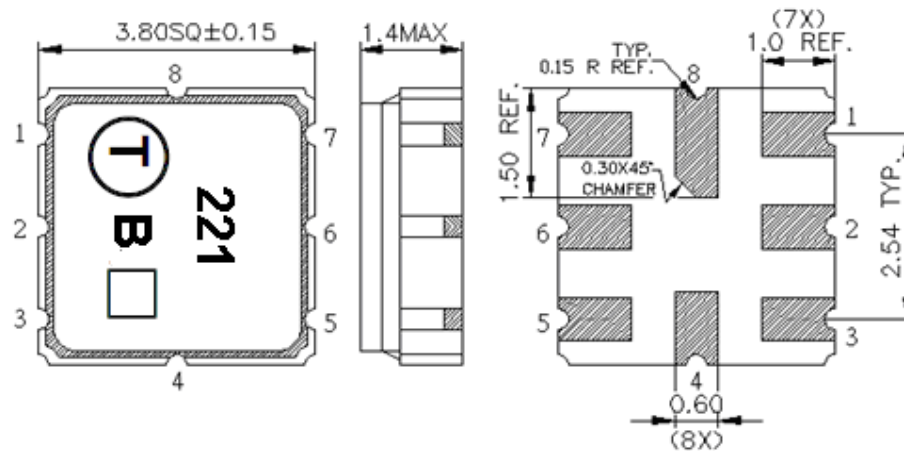
Network analyzer



D. FREQUENCY CHARACTERISTICS:



E. OUTLINE DRAWING:



Marking name: 221

△: Year code

□: Week code (Follow the table from planner each year)

Product Year Code

Year	2015	2016
	2017	2018
	2019	2020
Year Code	A	a

3: Input

7: Output

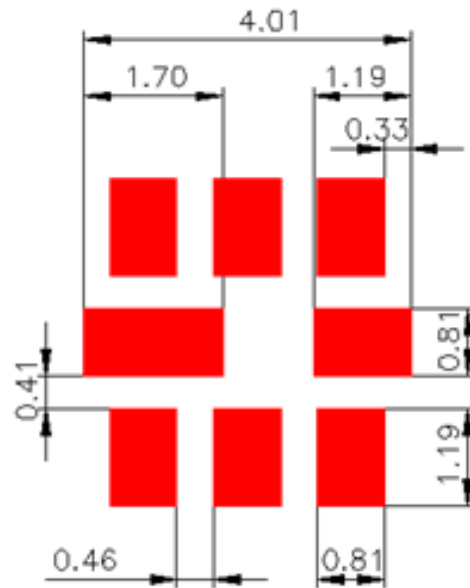
1, 2, 4, 5, 6, 8: Ground

Unit: mm

Date Code Table

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

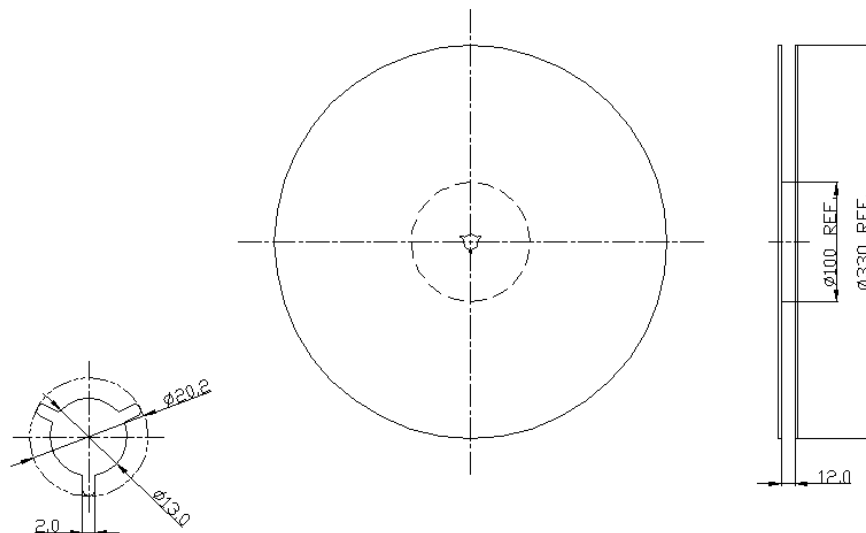
F. PCB FOOTPRINT:



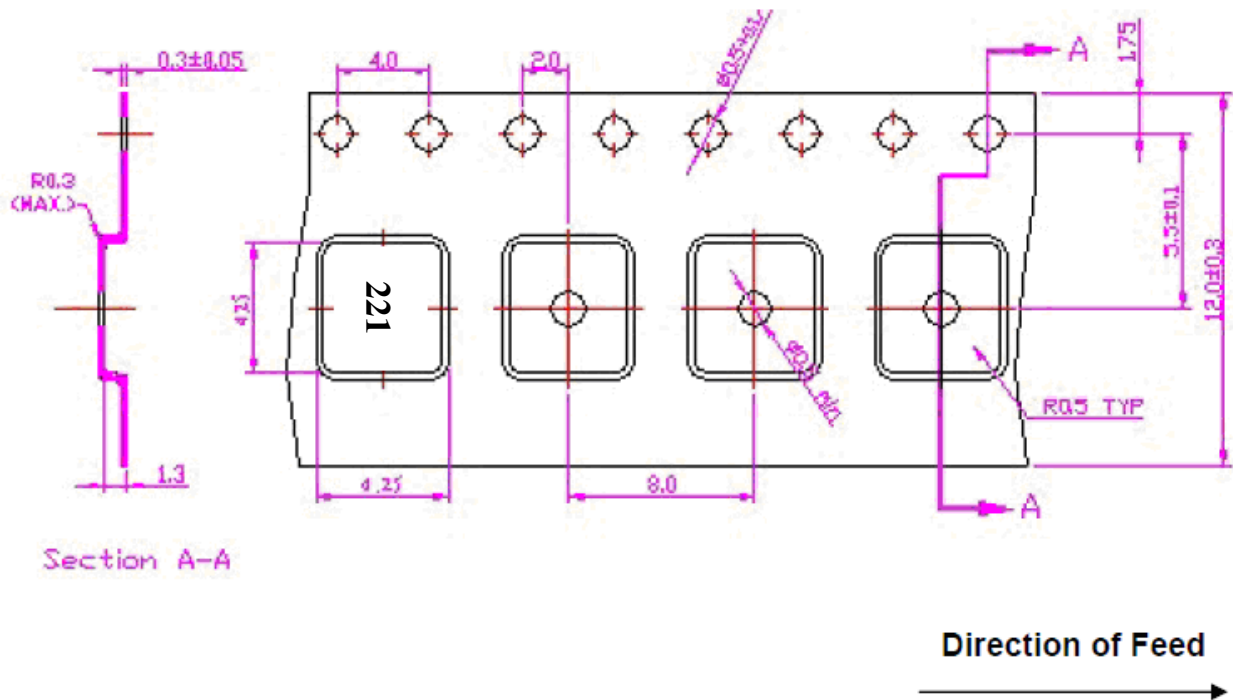
G. PACKING:

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°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at $260^{\circ}\text{C} \pm 0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

