

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 Resonator 418 MHz SMD 5X5 mm

TST Parts No.: TC0117A

Customer Parts No.:_____

Customer signature required	
Company:	_
Division:	_
Approved by :	
Date:	_
Infrance De	1.4

Checked by:	Hongpu Lin	Flong Fa Lin
Approval by:	Andy Yu	Andy In
Date:	2020/03/17	

- 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.

TAI-SAW TECHNOLOGY CO., LTD.

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

SAW Resonator 418 MHz

MODEL NO.: TC0117A

A. FEATURES:

1.1-Port Resonator.

B. MAXIMUM RATING:

- 1. Input Power Level: 0 dBm
- 2. 2.DC voltage: 12 V
- 3. Operating Temperature: -40°C to +85°C
- 4. Storage Temperature: -40°C to +85°C
- 5. Moisture Sensitivity Level: Level 1(MSL1)

ECTRICAL CHARACTERISTICS С

RoHS Compliant

REV. NO.:2.0

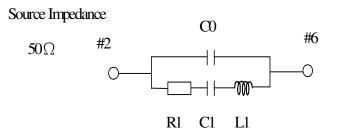
Lead-free soldering

Electrostatic Sensitive Device

C. <u>ELECTRICAL CHARACTERISTICS:</u>								
Characteristic	Units	Minimum	Typical	Maximum				
Center frequency Fr	MHz	417.925	418	418.075				
Insertion Loss IL dB			0.9	2.0				
Equivalent Elements								
Motional capacitance C1	fF	-	2.19	-				
Motional inductance L1	μH	-	66.11	-				
Motional resistance R1	Ohm	-	12.68	-				
Parallel capacitance Co	pF	-	3.65	-				
Temp.coeff.	ppm/c*2	-	0.032	-				
Turnover To	deg.C	20	-	50				
Package size		SMD 5X5X1.4mm						

D.EQUVIRENT CIRCUIT:

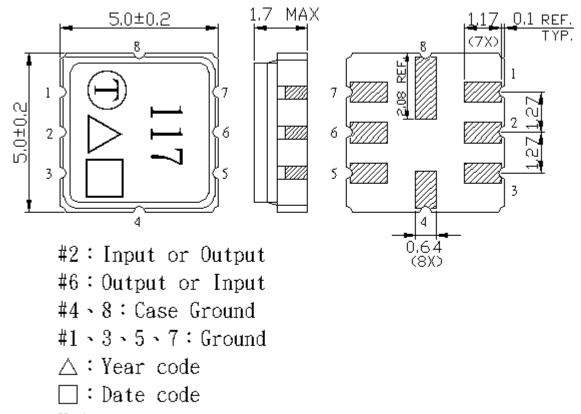
One-Port Resonator:



Load Impedance

 50Ω

E.OUTLINE DRAWING:



Unit:mm

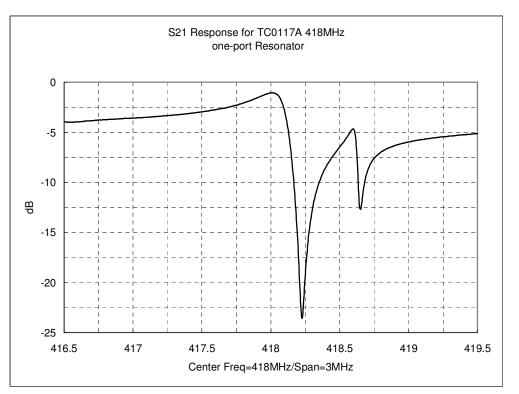
Product / Year Code- 4year cycle

Year	2017	2018	2019	2020	
	2021	2022	2023	2024	
Product Code	С	с	C	<u>C</u>	

Week Code Table

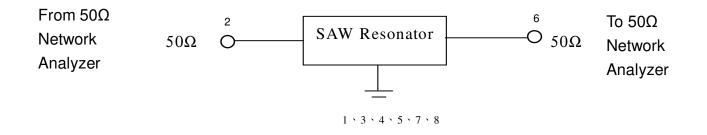
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	Н	I	J	К	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
Ν	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	I	m
WK40	WK41	WK42	WK43	WK44	WK45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

F.FREQUENCY CHARACTERISTICS:

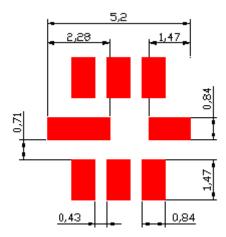


G. TEST CIRCUIT:

Network analyzer



H. PCB FOOTPRINT:

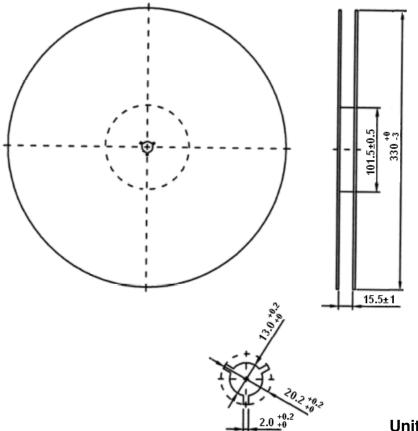


TAI-SAW TECHNOLOGY CO., LTD.

TST DCC Release document FR-71S03-02

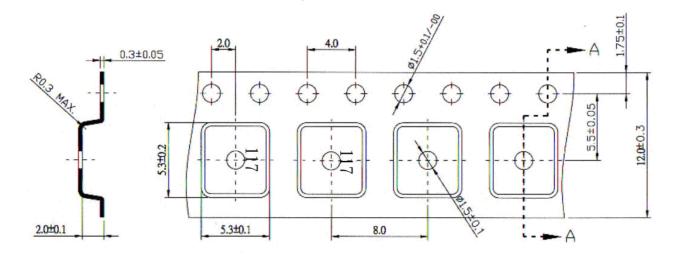
I. PACKING:

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



Unit: mm

2. TAPE DIMENSION



Section A-A

TAI-SAW TECHNOLOGY CO., LTD.

TST DCC Release document - 5 -

J. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at 150~180 $^\circ \! \mathbb{C}$ for 60~90 seconds.
- 2. Ascending time to preheating temperature 150 $^\circ\!\mathrm{C}$ shall be 30 seconds min.
- 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.

