TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Tao-Yuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Resonator 1500.1MHz SMD3.0x3.0mm

TST Parts No.: TC0672A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Hong Pu Lin_____ Hong Pu Lin

Approval by:_____Andy Yu_____ Andy Yu

Date:_____2020/04/10_____

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, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

SAW Resonator 1500.1 MHz SMD 3.0x3.0mm

MODEL NO.: TC0672A Rev. NO. 1.0

A. MAXIMUM RATING:

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

RoHS Compliant
Lead-free soldering

Electrostatic **S**ensitive **D**evice

B. ELECTRICAL CHARACTERISTICS:

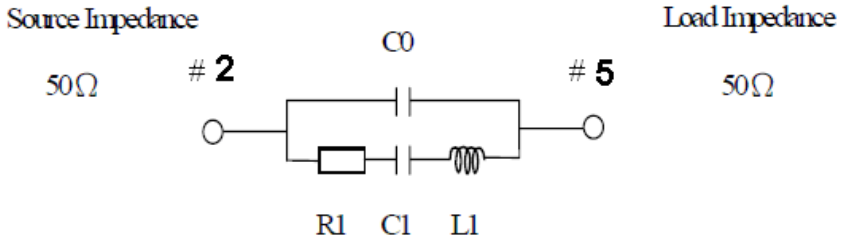
Characteristic	Units	Min	Type	Max
Center frequency	MHz	1499.9	1500.1	1500.3
Insertion Loss	dB		0.9	2.5
Unloaded Q Factor	-		4000	
Motional Capacitance	fF		3.8017	
Motional Inductance	μH		2.9613	
Motional Resistance	Ω		4.7875	
Parallel Capacitance	pF		2.3389	
Frequency Temperature coefficient (TC_f)	ppm/$^oC^2$	-0.032 Typ.		
Turnover To	^oC	10	35	60
Package size	mm	3.0 x 3.0		

*Frequency define by Yr(real) peak at room temperature.

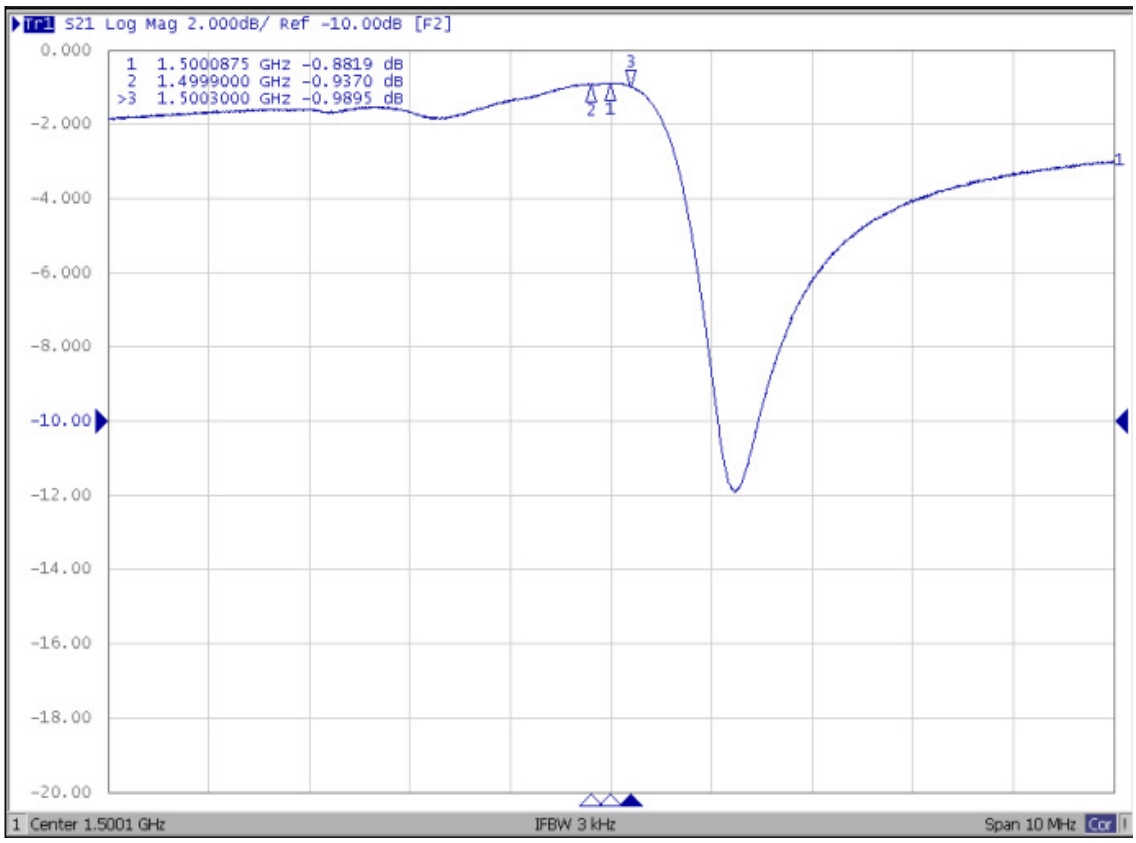
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1-TC_f(T_A-T_O)^2)$

C. EQUVIRENT CIRCUIT:

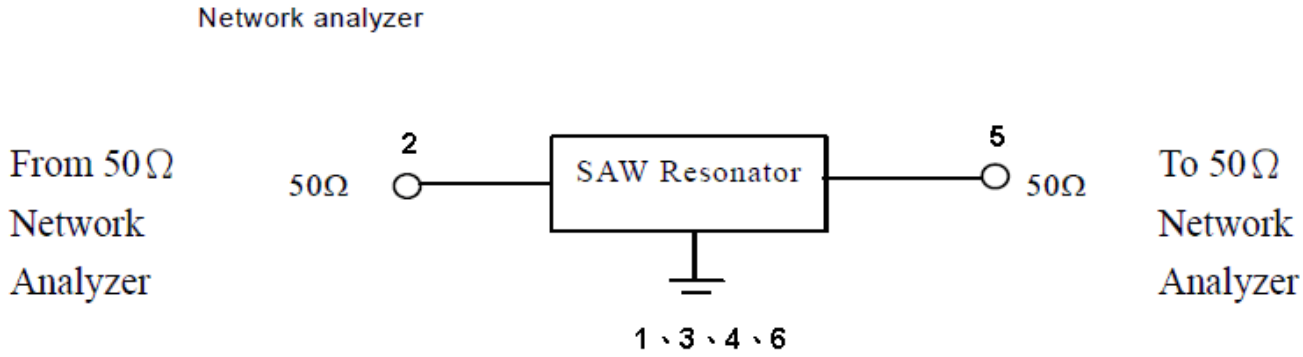
One-Port Resonator:



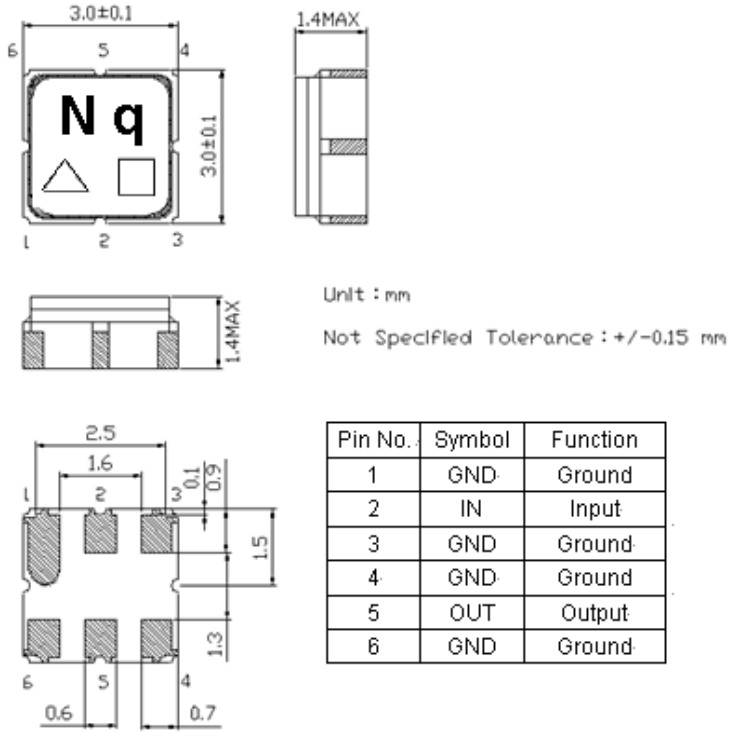
D. FREQUENCY CHARATERISTICS:



E. TEST CIRCUIT:



F. MECHANICAL DIMENSIONS:



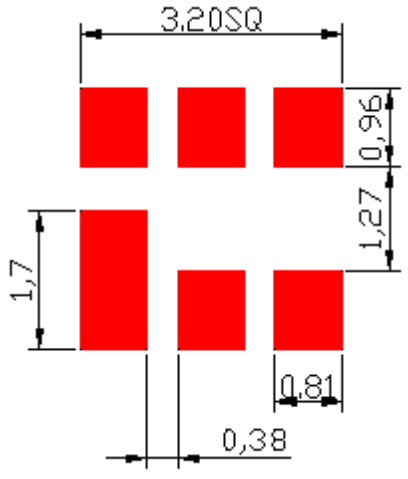
Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

△ : Year Code (2009->9, 2010->0,…, 2018->8)

□ : Date Code (Follow the table from planner each year)

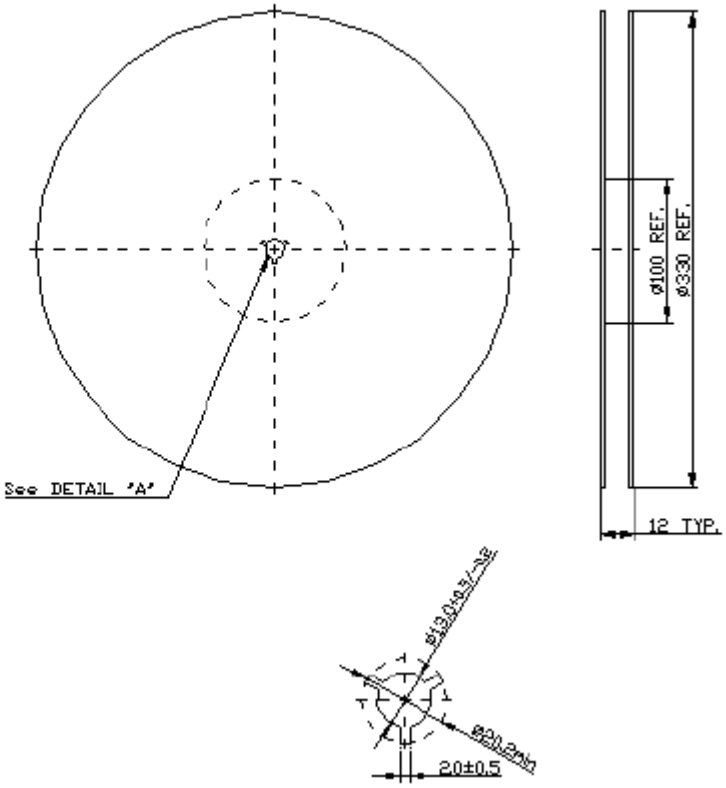
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

G. PCB FOOTPRINT:

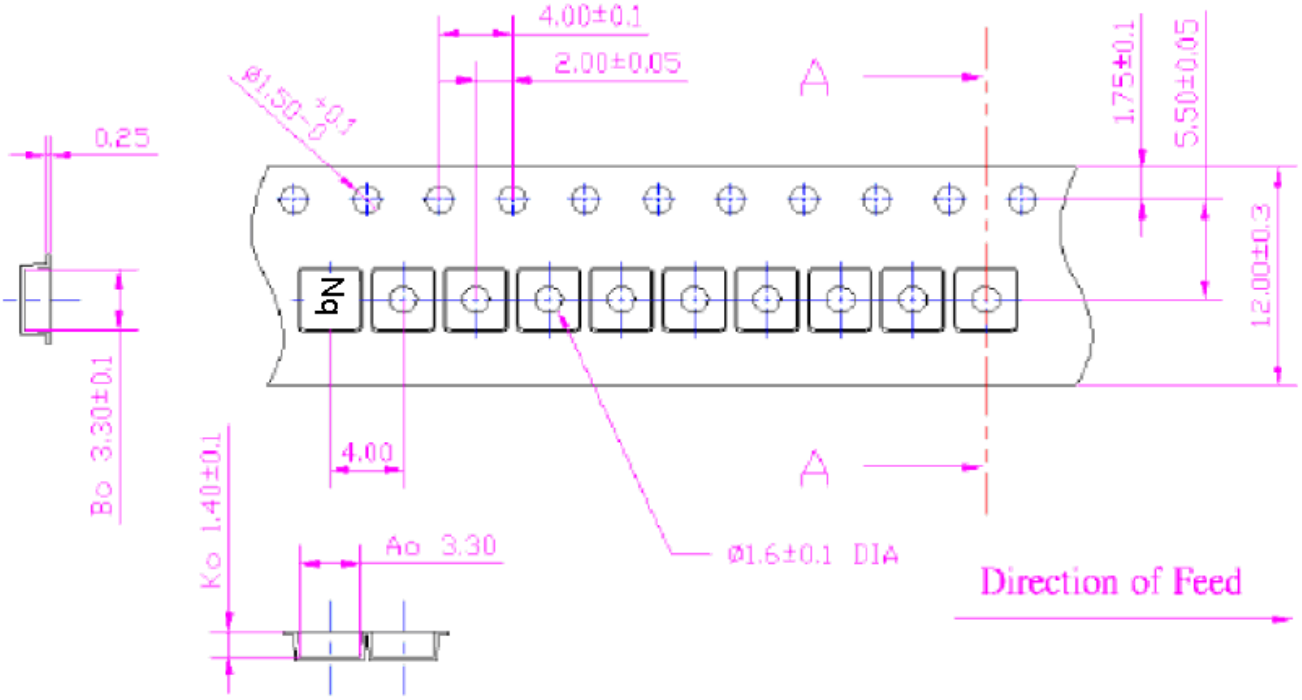


H. PACKING:

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



2. TAPE DIMENSION



I. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.