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: 345 MHz SMD 5.0 x 3.5 mm SAW Resonator

TST Parts No.: TC0666A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Hong Pu Lin Hong Pu Lin

Approval by: Andy Yu Andy Yu

Date: 2019/10/09

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 Resonator 345 MHz

MODEL NO.: TC0666A Rev. NO. 1.0

A. MAXIMUM RATING:

1.Input Power Level: 0 dBm (CW RF Power Dissipation)
2.DC voltage: 12V
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:

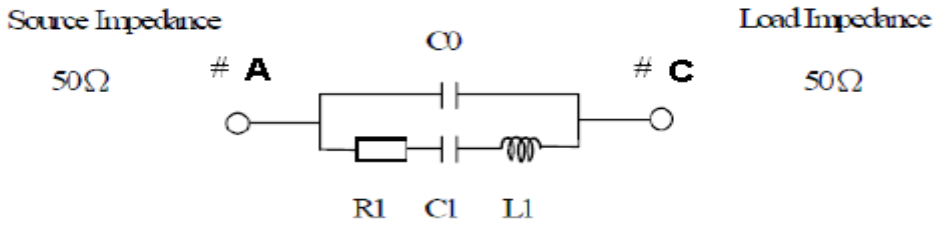
Characteristic	Units	Min	Typ	Max
Center frequency **Fc**	**MHz**	344.925	345	345.075
Insertion Loss **IL**	**dB**		1.5	2.0
Unload Quality Factor	**-**		18000	
Motional Capacitance C_1	**fF**		1.76	
Motional Inductance L_1	**μH**		120.5	
Motional Resistance R_1	**Ohm**		17.5	22
Parallel Capacitance **Co** (Shunt Static Capacitance)	**pF**		3.36	
Frequency Temperature coefficient	**ppm / °C**	.	0.032	
requency Aging (First Year)			10ppm/year	
Turnover To	**°C**	10		40
Package size	**mm**	SMD 5.0 x 3.5mm		

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

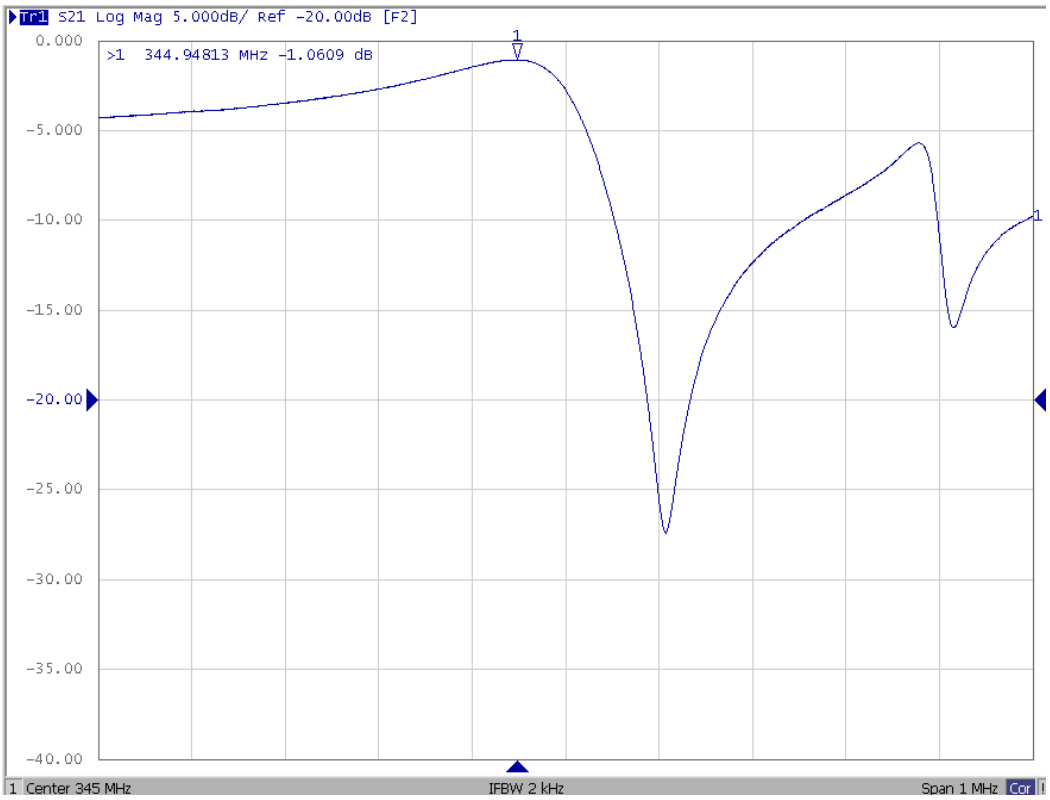
-Temperature dependence of fc: $fc(T_A)=fc(T_O)(1-TC_f(T_A-T_O)^2)$

C. EQUVIRENT CIRCUIT:

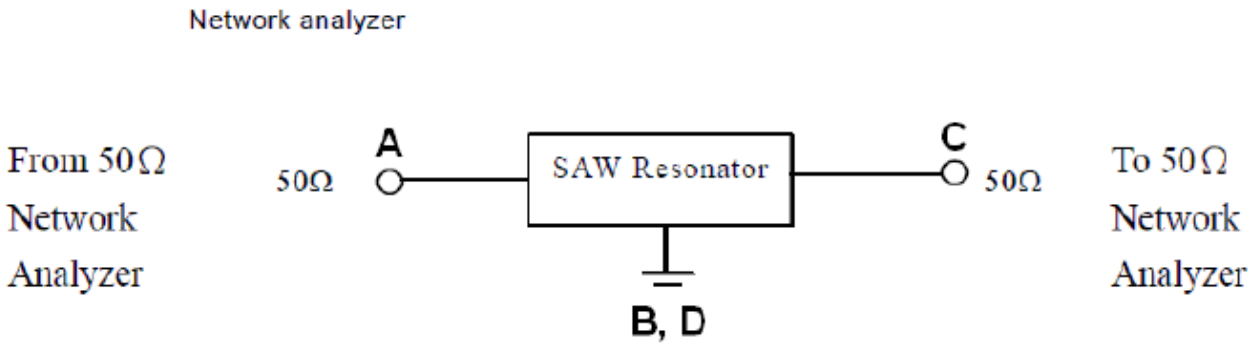
One-Port Resonator:



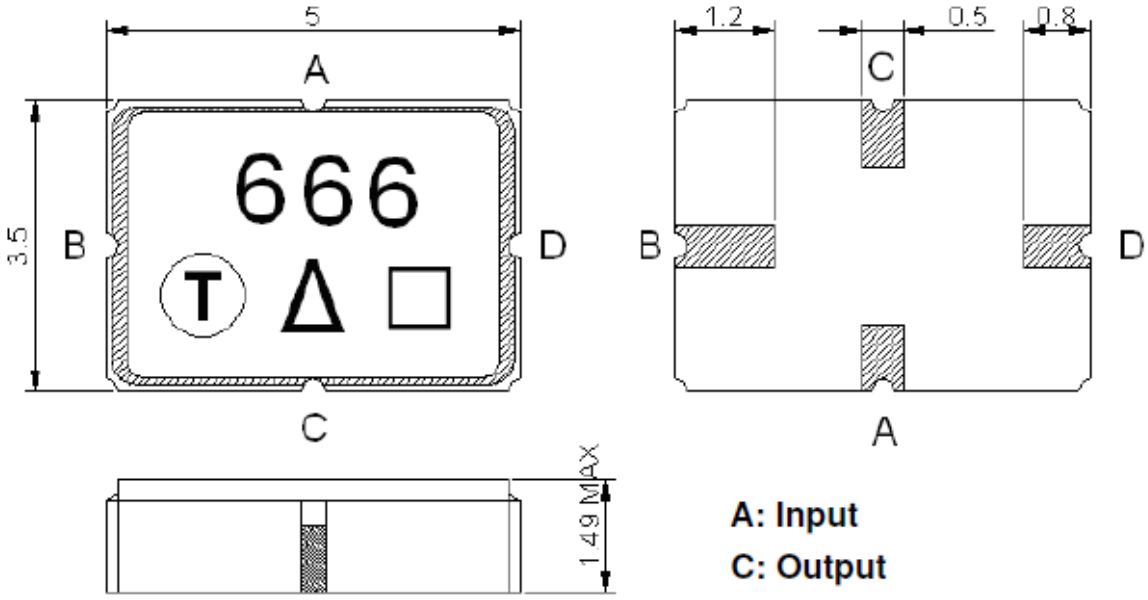
D. FREQUENCY CHARATERISTICS:



E. TEST CIRCUIT:



F.OUTLINE DRAWING

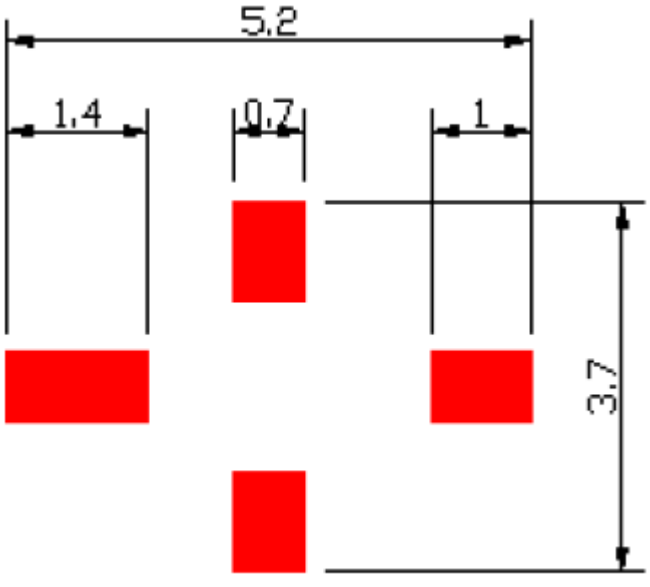


A: Input
C: Output
B, D: Ground
Unit: mm

Δ Year Code: For odd year "C" for even year "c"
□ Week Code: Follow below table.

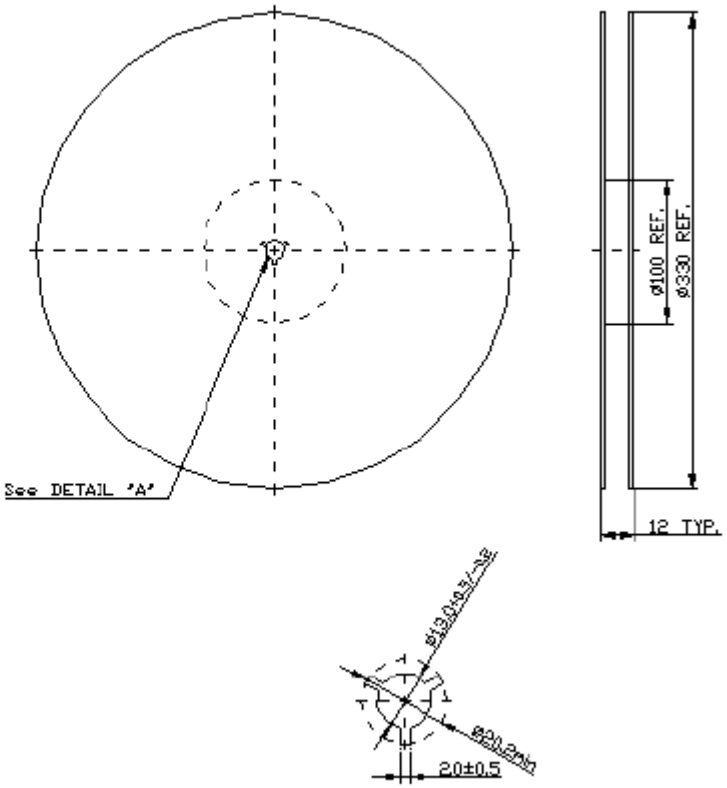
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

G. PCB FOOTPRINT:

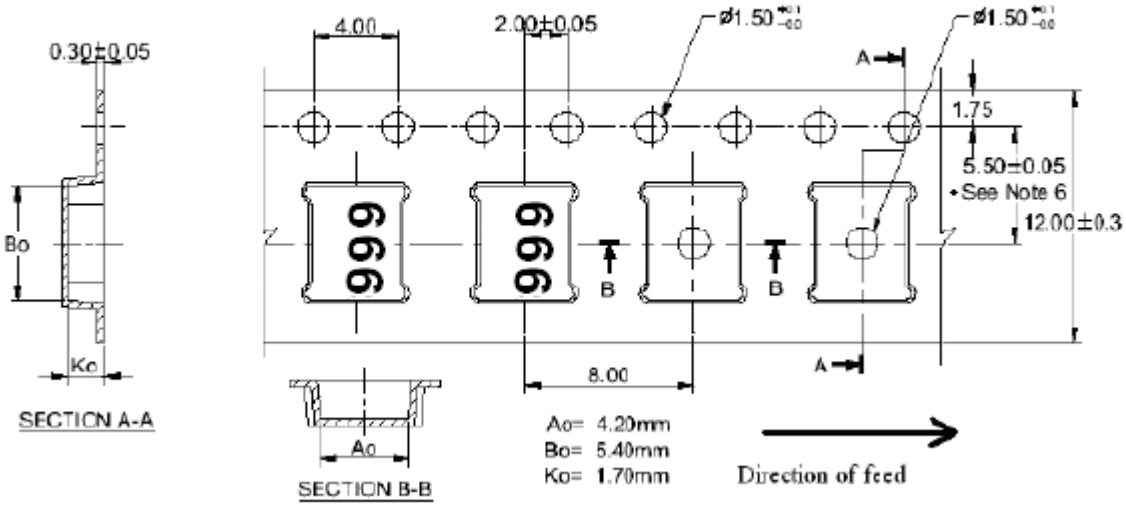


H. PACKING:

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.