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

Product Specifications Approval Sheet

Product Description: 500 MHz SMD 5.0 x 3.5 mm SAW Resonator

TST Parts No.: TC0632A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Sam Lin _____

Approval by:_____ Andy Yu _____

Date:_____ 2019/08/05 _____

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 500 MHz

MODEL NO.: TC0632A REV. NO.:4.0

RoHS Compliant
Lead free
Lead-free soldering

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

A. FEATURES:

1. 1-Port Resonator.

B. MAXIMUM RATING:

1. Input Power Level: 10 dBm
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)

C. ELECTRICAL CHARACTERISTICS:

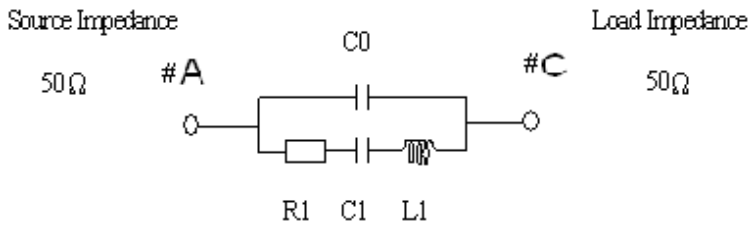
Reference Temperature T_A=25℃

Characteristic	Units	Minimum	Typical	Maximum
Center frequency **Fc**	**MHz**	499.965	500	500.035
Insertion Loss **IL**	**dB**	-	1.3	2.0
Unload quality factor Q_U		-	14000	-
Motional capacitance **C1**	**fF**	-	1.68	-
Motional inductance **L1**	**μH**	-	60.24	-
Motional resistance **R1**	**Ohm**	-	13.58	-
Parallel capacitance **Co**	**pF**	-	2.96	-
Frequency Temperature coefficient (TC_f)	**ppm/c*2**	-	0.032	-
Turnover To	**deg.C**	25	40	55
Package size		SMD 5.0X3.5X1.5mm		

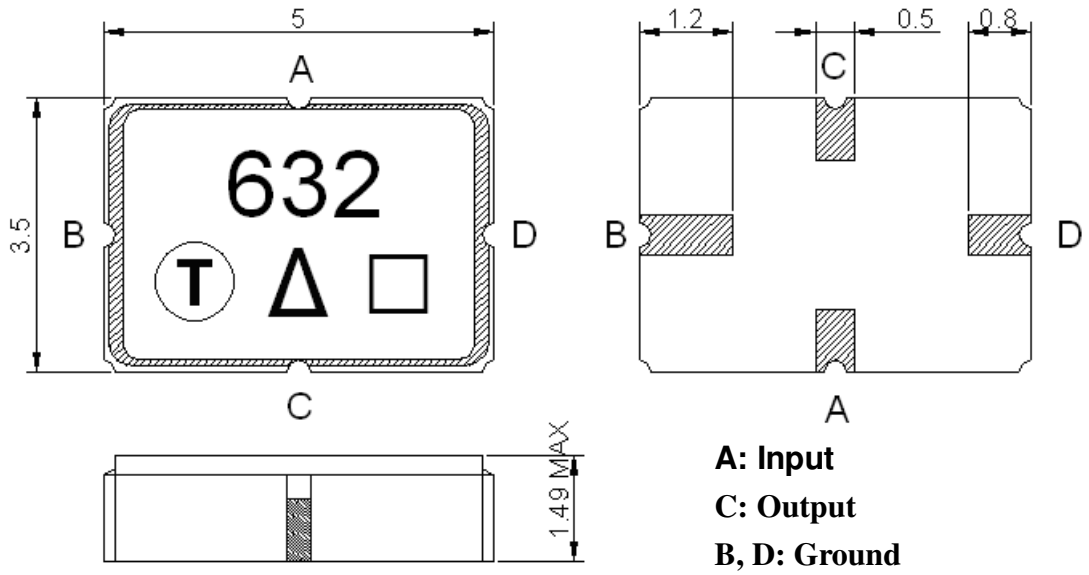
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

D. EQUVIRENT CIRCUIT:

One-Port Resonator:



E.OUTLINE DRAWING:

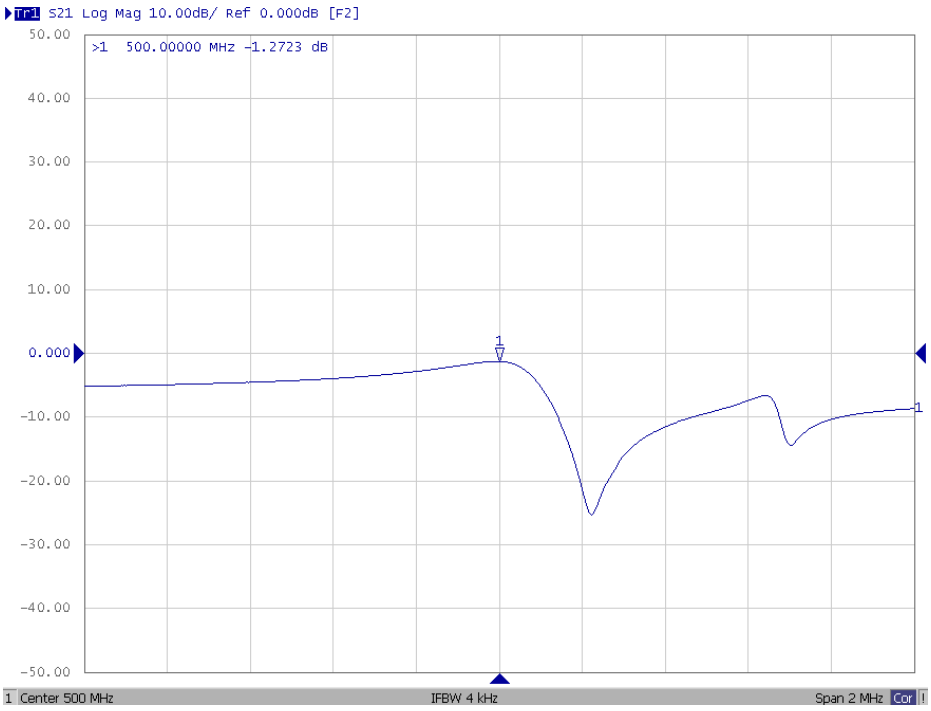


A: Input
C: Output
B, D: Ground
Unit: mm

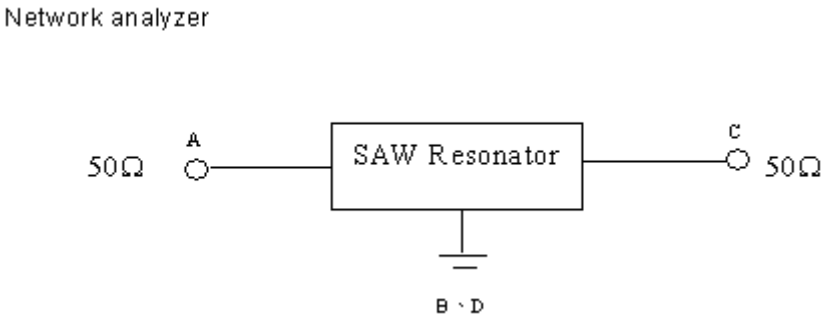
Δ Year Code: For odd year "C" for even year "c"
□ Week Code: Follow below table.

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

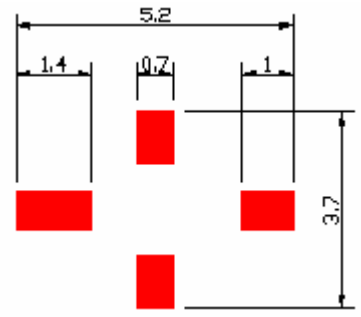
F.FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:



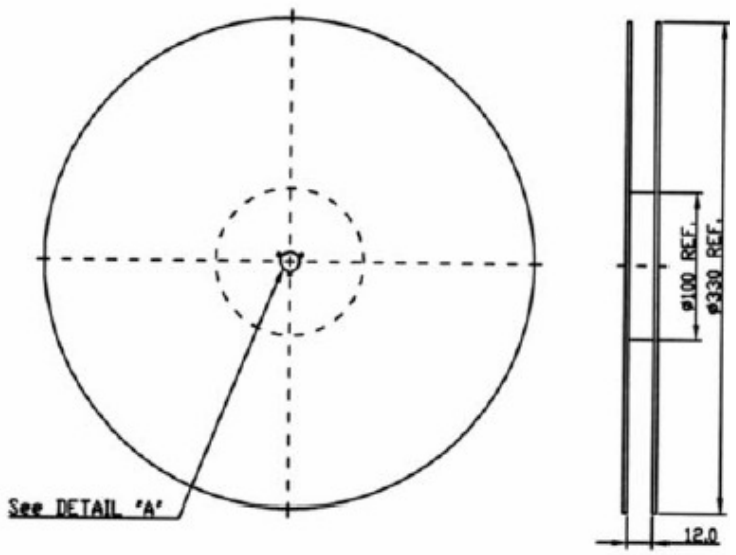
H.PCB FOOTPRINT:

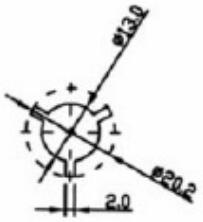


I. PACKING:

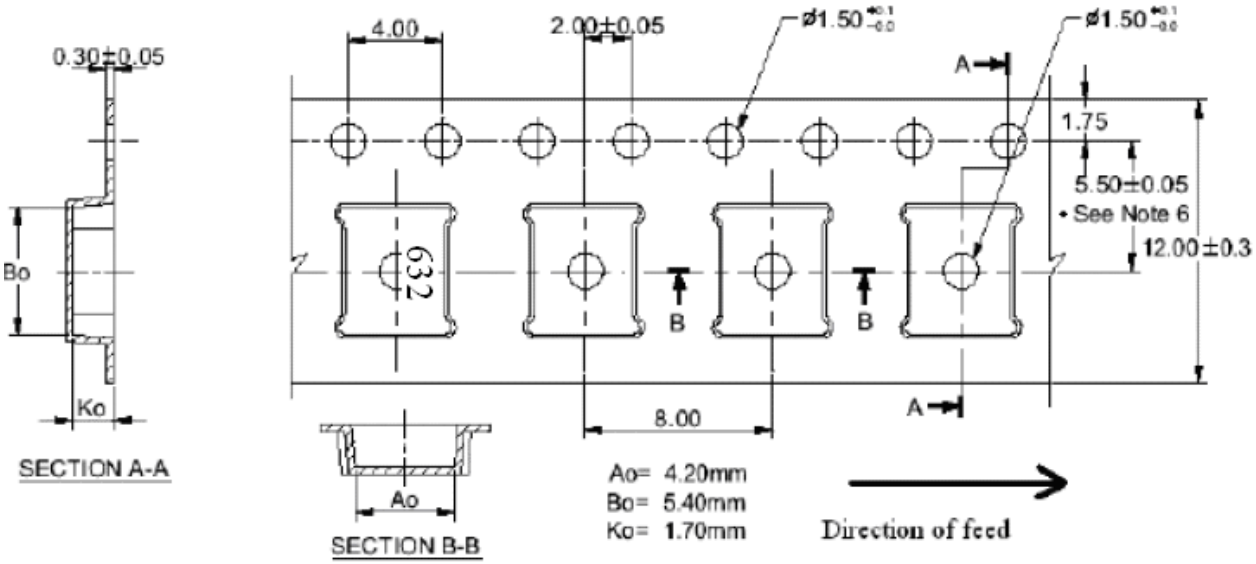
1.REEL DIMENSION

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





2.TAPE DIMENSION



J. 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.

