



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: SAW Resonator 363.281 MHz SMD 3.8x3.8mm

TST Parts No.: TC0667A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

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

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/05/10

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



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SAW Resonator 363.281 MHz

MODEL NO.: TC0667A

Rev. NO. 1.0

A. MAXIMUM RATING:

1. Input Power Level: 0 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**)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

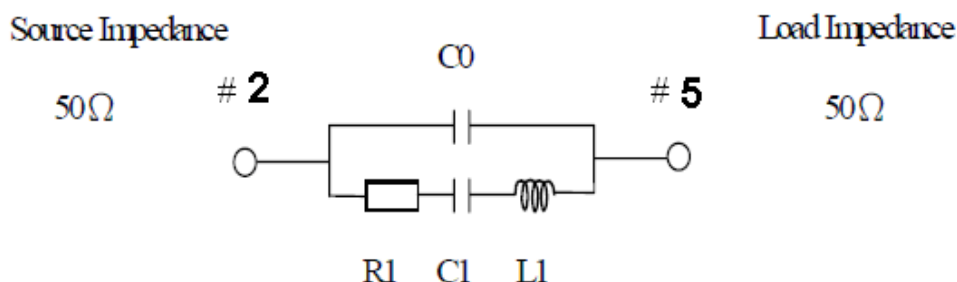
Characteristic	Units	Min	Type	Max
Center frequency	MHz	363.256	363.281	363.306
Insertion Loss	dB		1.5	2.2
Unloaded Q Factor	-	7000	8800	
Motional Capacitance C1	fF	2.7	3.3	
Motional Inductance L1	μH		58	
Motional Resistance R1	Ω		15	
Parallel Capacitance Co	pF		4.5	
Frequency Temperature coefficient (TC _f)	ppm/°C ²		0.032	
Turnover To	°C	10	25	40
Package size	mm	3.8 x 3.8		

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

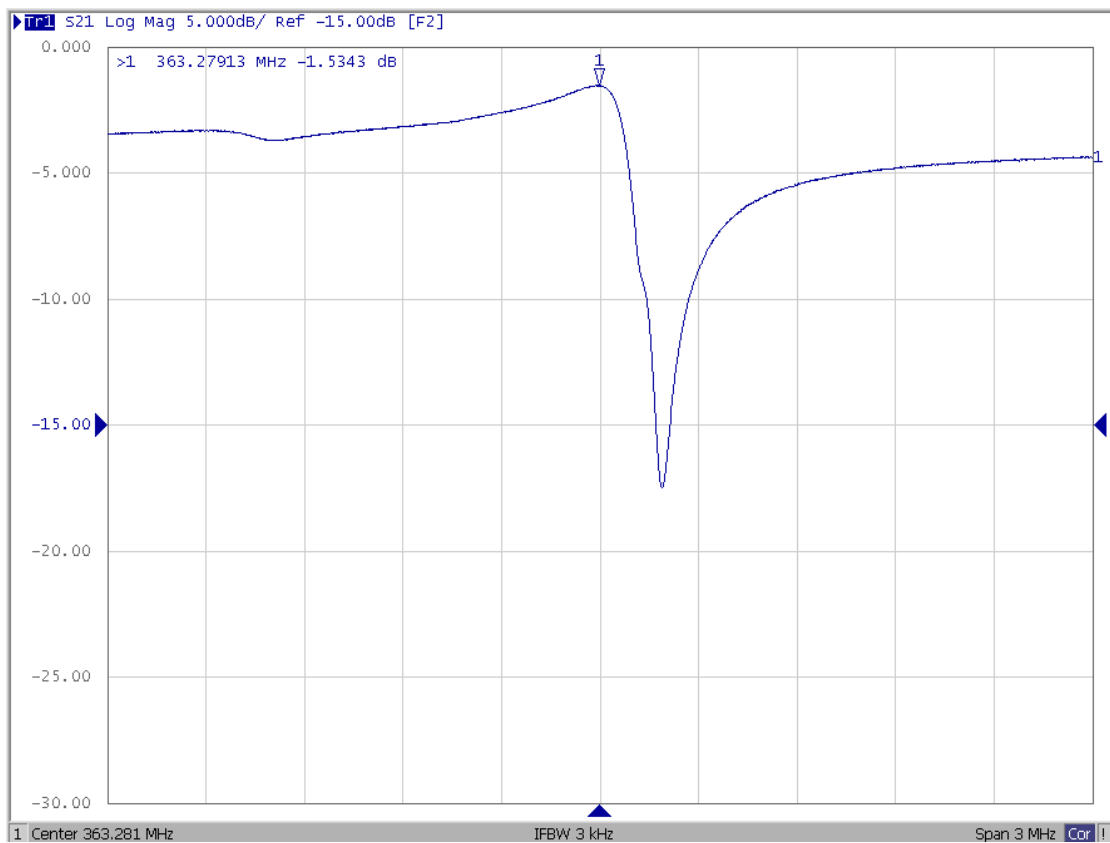
$$\text{Temperature dependence of } f_c: f_c(T_A) = f_c(T_0)(1 - TC_f(T_A - T_0)^2)$$

C. EQUIVRENT CIRCUIT:

One-Port Resonator:

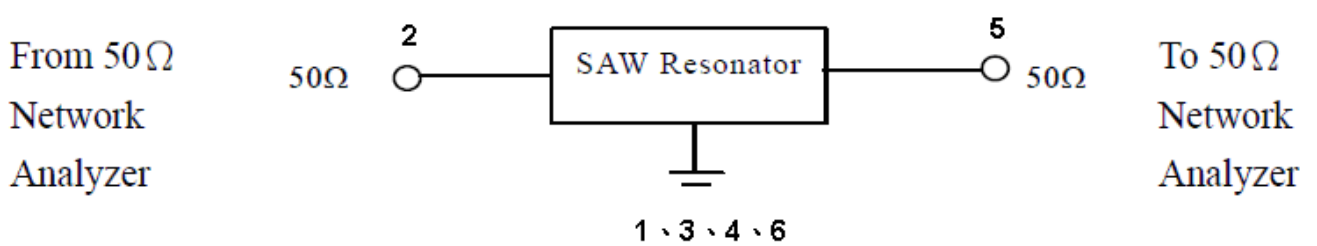


D. FREQUENCY CHARACTERISTICS:

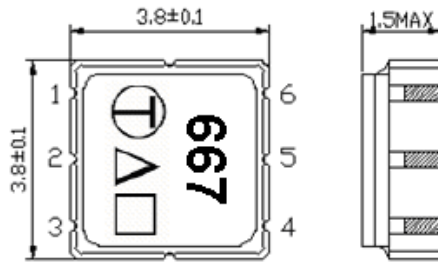


E. TEST CIRCUIT:

Network analyzer

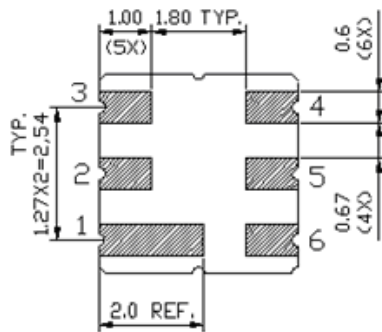


F. MECHANICAL DIMENSIONS:



Unit : mm

Not Specified Tolerance : +/-0.15 mm



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

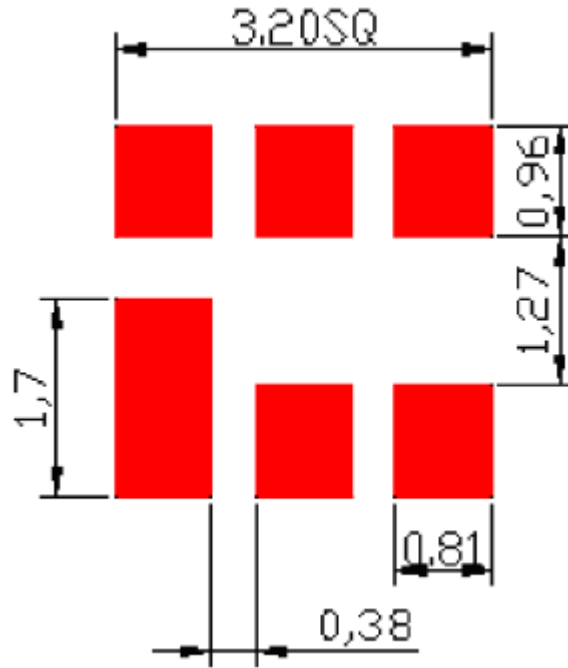
△ Product Year Code

Year	2009	2010	2011	2012
	2013	2014	2015	2016
	2017	2018	2019	2020
Product Code	C	c	C	c

□ Date Code Table:

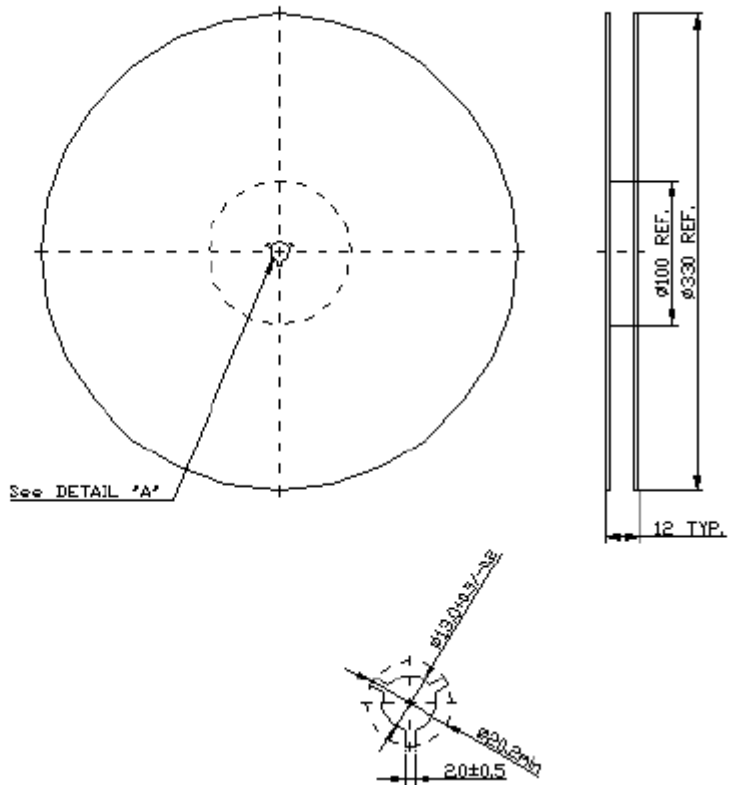
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

G. PCB FOOTPRINT:

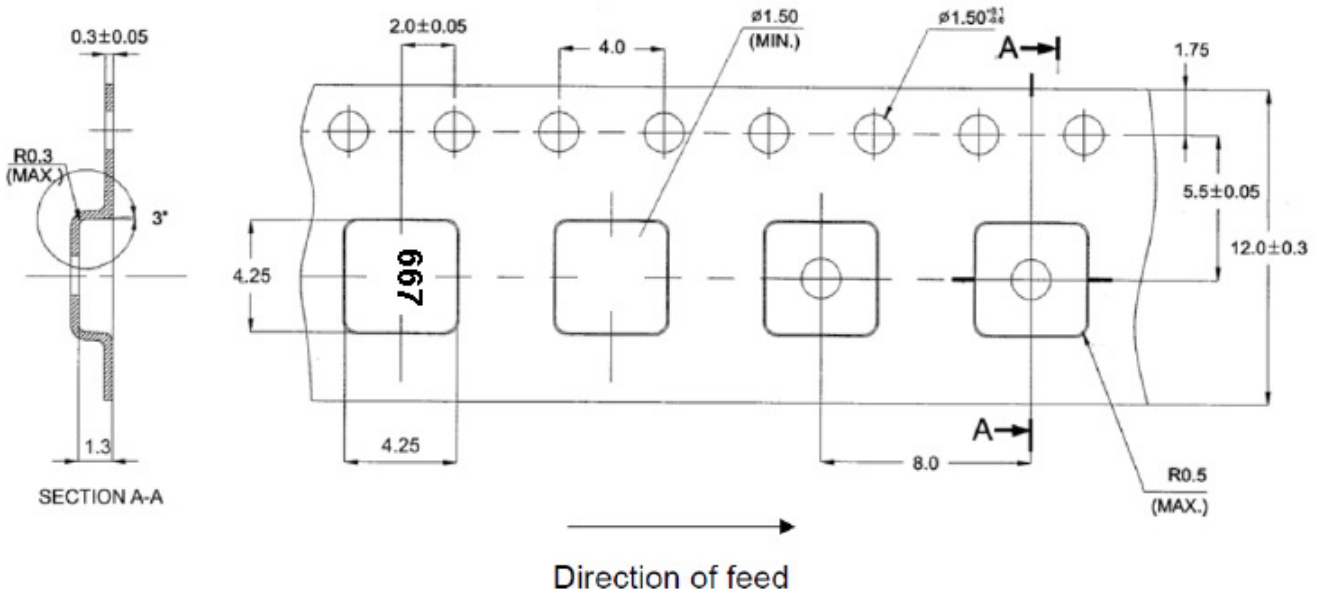


H. PACKING:

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



2. TAPE DIMENSION



I. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150 \sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} +0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

