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: 800 MHz SMD 3.8X3.8 mm SAW Resonator

TST Part No.: TC0314A

Customer Part No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Kazuma Lee Kazuma Lee

Approved by: Andy Yu 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 800 MHz

MODEL NO.: TC0314A REV. NO.:3

A. FEATURES:

1. 1-Port Resonator.

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. MAXIMUM RATING:

1.Input Power Level: 10 dBm

2.DC voltage: 12 V

3.Operating Temperature: -40°C to +85°C

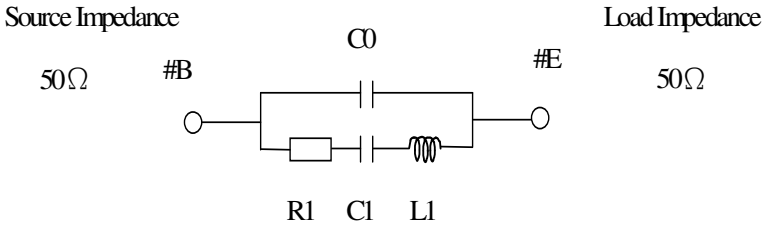
4.Storage Temperature: -40°C to +85°C

C. ELECTRICAL CHARACTERISTICS:

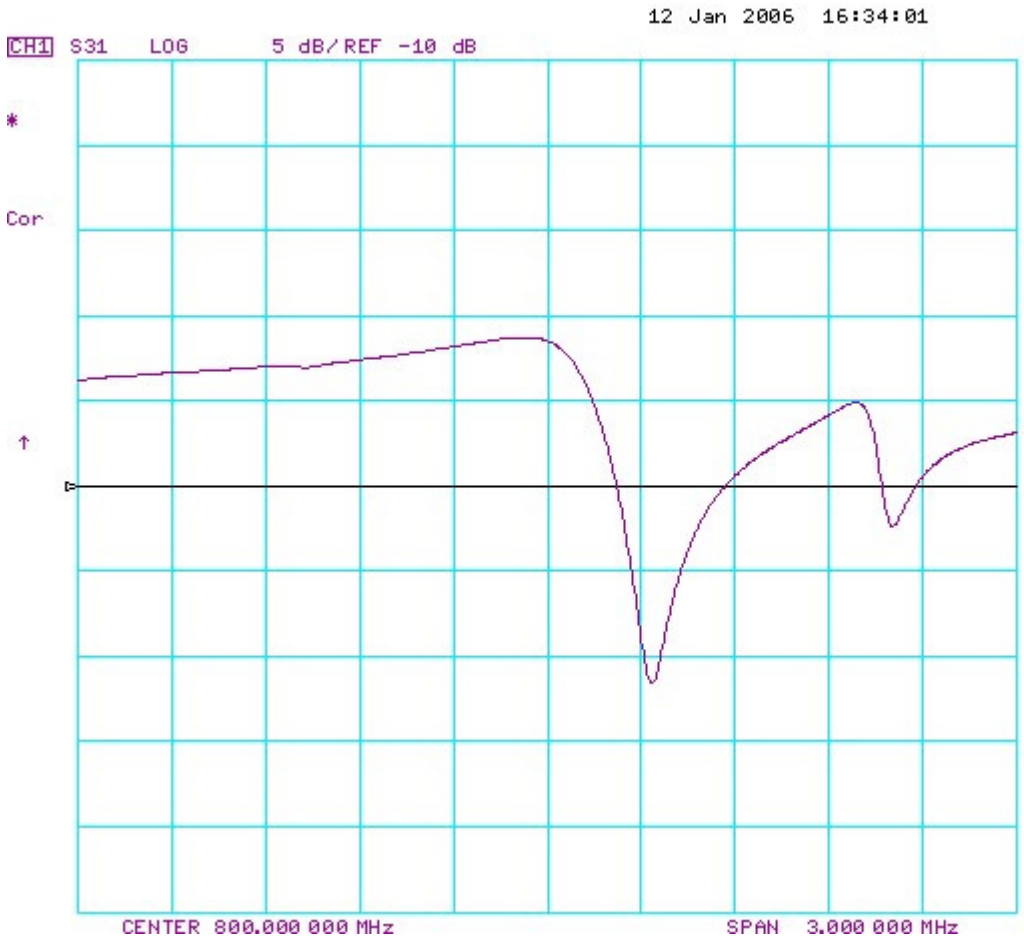
Characteristic	Units	Minimum	Typical	Maximum
Center frequency **Fr**	**MHz**	799.925	800	800.075
Insertion Loss **IL**	**dB**		1.3	2.3
Unloaded Quality factor		-	8700	-
Equivalent Elements				
Motional capacitance **C1**	**fF**	-	1.46	-
Motional inductance **L1**	**μH**	-	26.9	-
Motional resistance **R1**	**Ohm**	-	15.47	-
Parallel capacitance **Co**	**pF**	-	2.59	-
Temp.coeff.	**ppm/c*2**	-	0.032	-
Turnover To	**deg.C**	-	25	-
Package size		SMD 3.8X3.8X1.4mm		

D.EQUVIRENT CIRCUIT:

One-Port Resonator:



E.FREQUENCY CHARACTERISTICS:



F. TEST CIRCUIT:

Network analyzer

From 50Ω Network Analyzer

50Ω

B

SAW Resonator

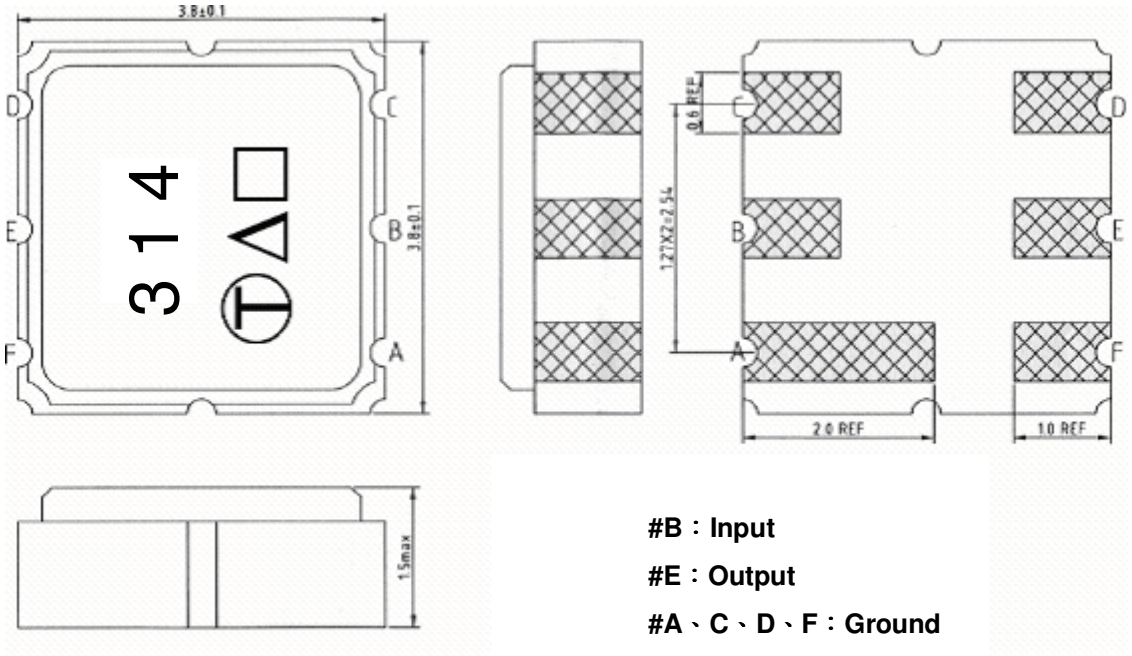
E

50Ω

To 50Ω Network Analyzer

A、C、D、F

G.OUTLINE DRAWING:



#B：Input

#E：Output

#A、C、D、F：Ground

△：Product / Year Code

□：DateCode

Unit：mm

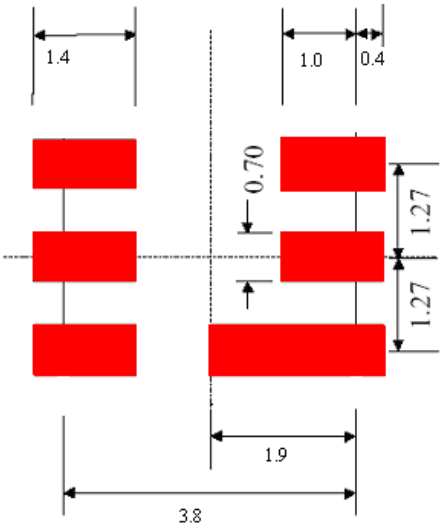
Product Year Code

Year	**2013 2015 2017 .**	**2014 2016 2018 .**
Product Code	**C**	**c**

Date code：

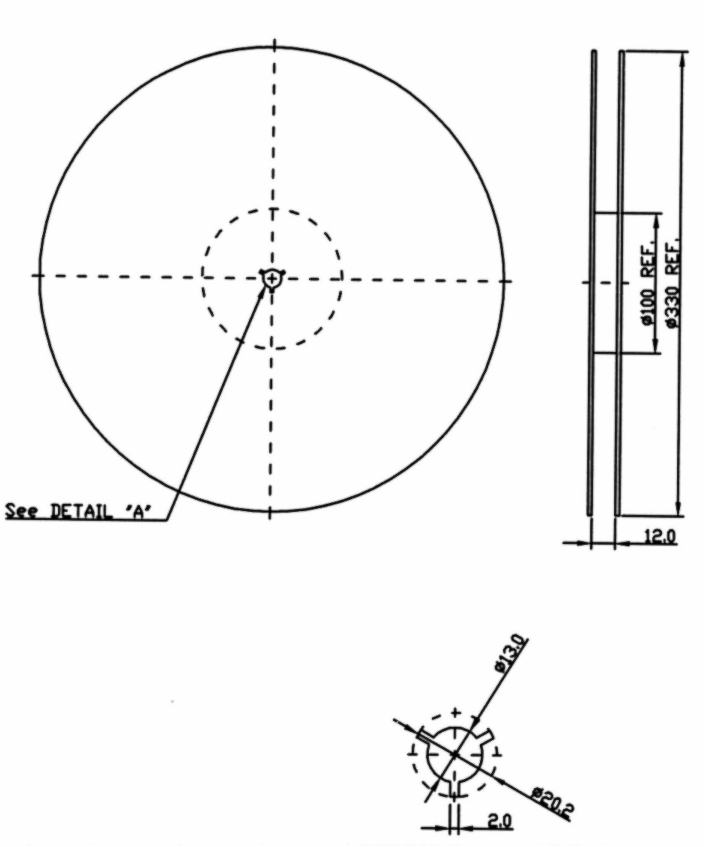
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

H. PCB FOOTPRINT:

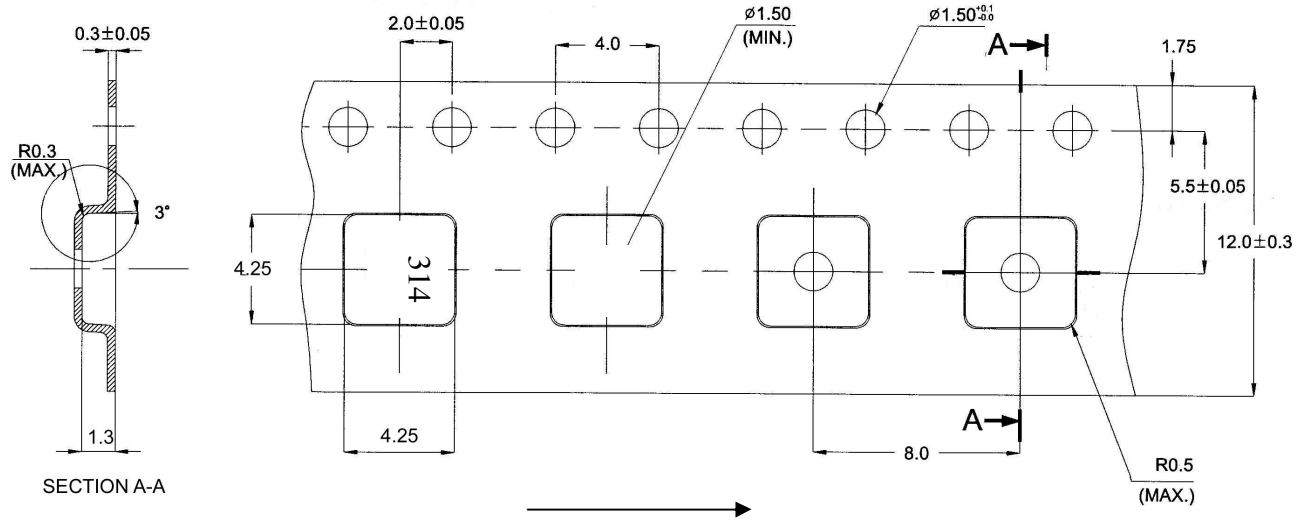


I. PACKING:

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



2. TAPE DIMENSION



J. RECOMMENDED REFLOW PROFILE

