

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: SAW Resonator 315 MHz SMD 5.0X3.5 mm

TST Part No.: TC0437A

Customer Part No.:_____

Customer signature require	ed	
Company:		
Division:		
Approved by :		
Date:		
		Hana Pullin
Checked by:	Hongpu Lin	Hong Pu Lin
Approval by:	Andy Yu	Andy In
Date:	2019/04/25	

- 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.
- 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.

TST DCC Release document

T/T 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 Web: www.taisaw.com E-mail: tstsales@mail.taisaw.com

SAW Resonator 315 MHz

MODEL NO.: TC0437A

A. FEATURES:

1.1-Port Resonator.

B. MAXIMUM RATING:

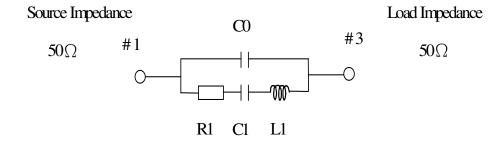
- 1.Input Power Level: 0 dBm
- 2.DC voltage: 5 V
- 3.Operating Temperature: -40°C to +85°C
- 4.Storage Temperature: -40°C to +85°C
- 5. Moisture Sensitive Level (MSL): Level 1

C. ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum			
Center frequency Fr	MHz	314.925	315	315.075			
Insertion Loss IL	dB	-	1.36	2.0			
Equivalent Elements							
Motional capacitance C1	fF	-	2.53	-			
Motional inductance L1	μH	-	101.09	-			
Motional resistance R1	Ohm	-	16.73	-			
Parallel capacitance Co	pF	-	4.25	-			
Temp.coeff.	ppm/c*2	-	0.032	-			
Turnover To	deg.C	-	25	-			
Package size		SMD 5.0X3.5X1.4mm					

D.EQUVIRENT CIRCUIT:

One-Port Resonator:



TAI-SAW TECHNOLOGY CO., LTD.

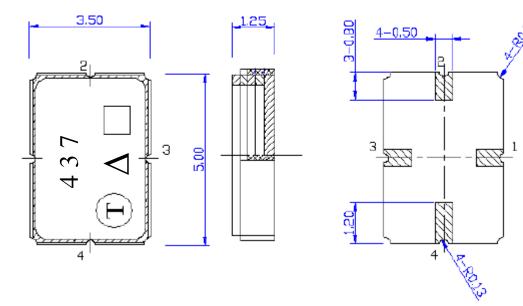
Electrostatic Sensitive Device

RoHS Compliant Lead free _ead-free soldering

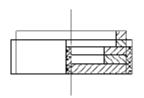
REV. NO.: 4.0

- 2 -

E.OUTLINE DRAWING:



Pin 1 : Input Pin 3 : Output Pin 2,4 : Ground C : Date code



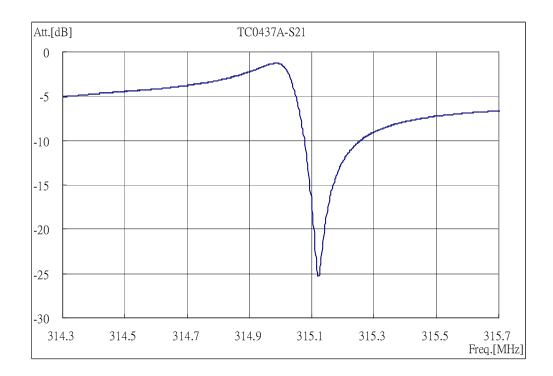
Year₽	2013₽	2014≁	2015⊬	2016⊬
	2009₽	2010₽	2011₽	2012₽
Year Code₽	C₽	C₽	0 O	<u>C</u> +2

Δ : Year Code

Data code :

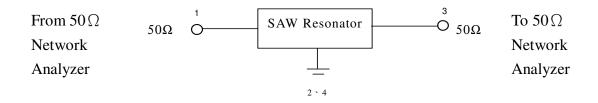
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	Н	1	J	K	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
Ν	0	P	Q	R	S	Т	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	с	d	e	f	g	h	i	j	k	1	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	S	t	u	v	w	X	У	z

F. FREUENCY CHARACTERISTICS



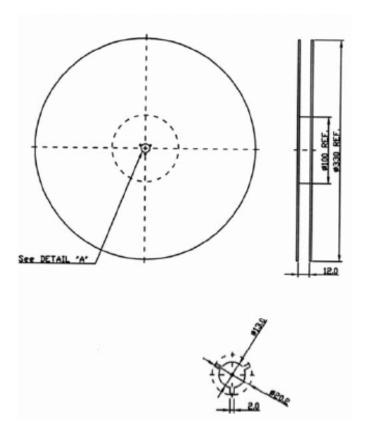
G. TEST CIRCUIT:

Network analyzer

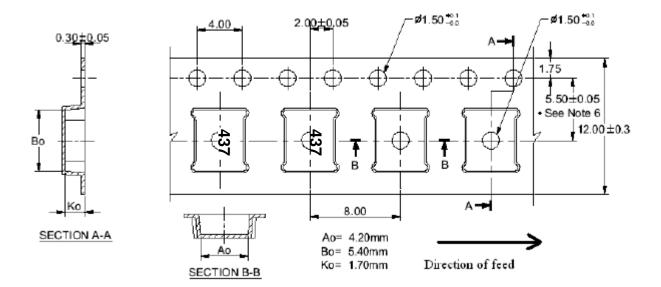


H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



I. <u>RECOMMENDED REFLOW PROFILE:</u>

- 1. Preheating shall be fixed at 150~180 $^\circ \! \mathbb{C}$ 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° C +0/-5°C peak (20~40sec).

