



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Name: SAW Filter 2475 MHz SMD 1.4x1.1 mm (BW=20 MHz)

TST Parts No.:TA1973A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by : _____

Date:_____

Checked by:_____ David Chang 

Approved by:_____ Bob Chau 

Date:_____ 2016/05/05

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 Filter 2475 MHz

MODEL NO.:TA1973A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC Voltage : 5 V
3. Operating Temperature: -30°C to +65°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

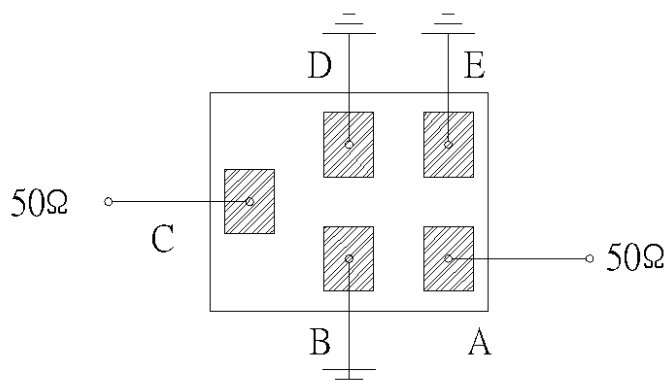
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

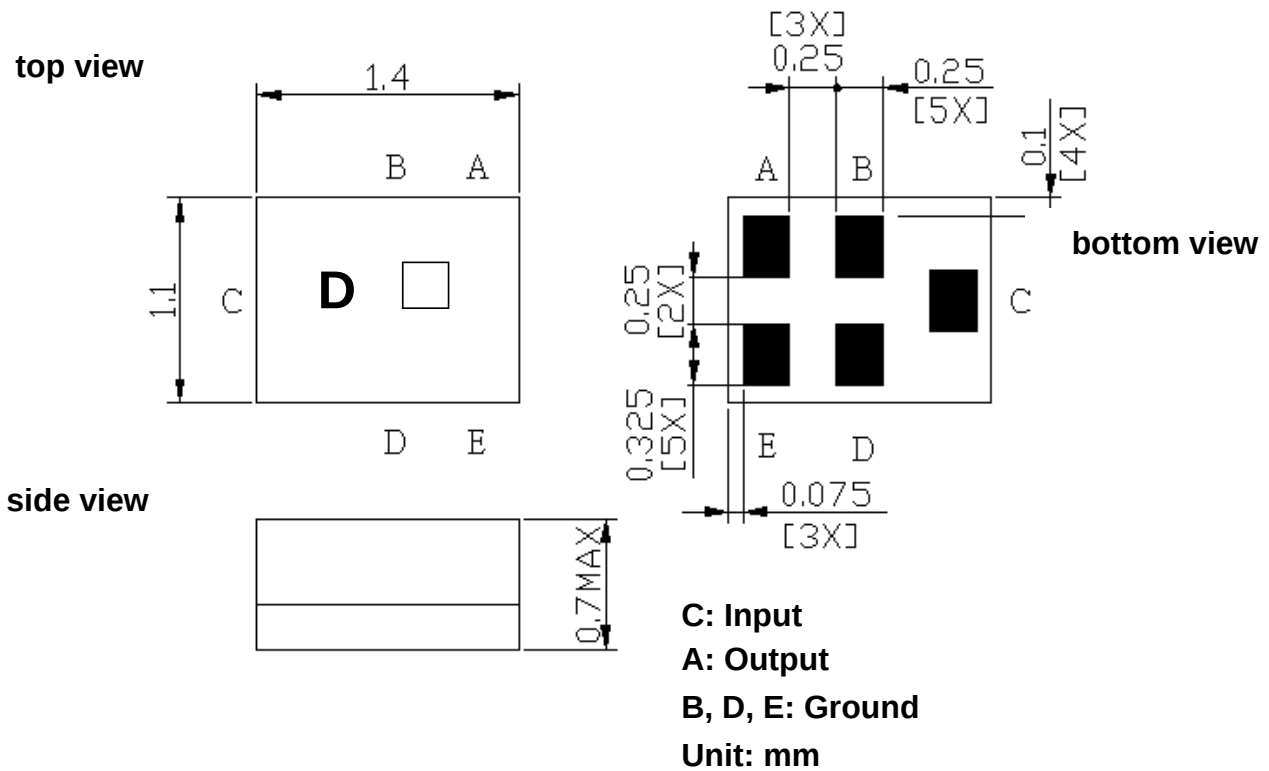
Terminating load impedance : $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	2475	-
Insertion Loss (2465~2485 MHz) IL	dB	-	3.0	6.2
Amplitude ripple (2465~2485 MHz)	dB	-	1.3	4.8
VSWR (2465~2485 MHz)	-	-	1.8	2.5
Group delay ripple (2465~2485 MHz)	ns	-	8	40
Attenuation (Reference level from 0 dB)				
1940 ~ 2360 MHz	dB	34	38	-
2440 MHz	dB	15	25	-
2555 ~ 3600 MHz	dB	34	39	-
Temperature coefficient of frequency	ppm/k	-	-36	-

C. MEASUREMENT CIRCUIT:



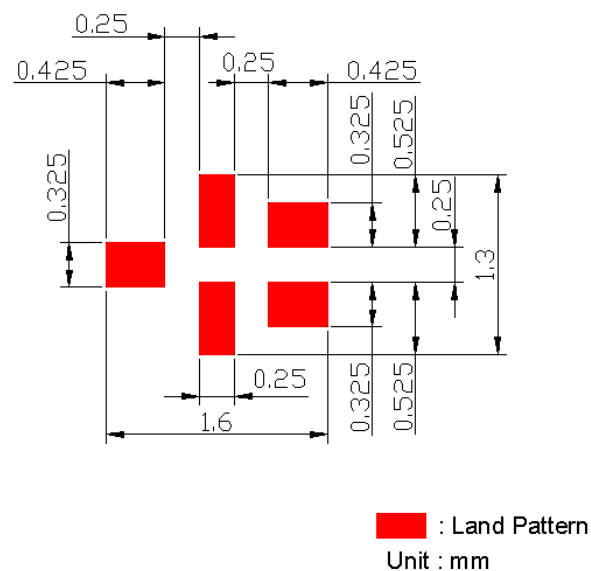
D. OUTLINE DRAWING:



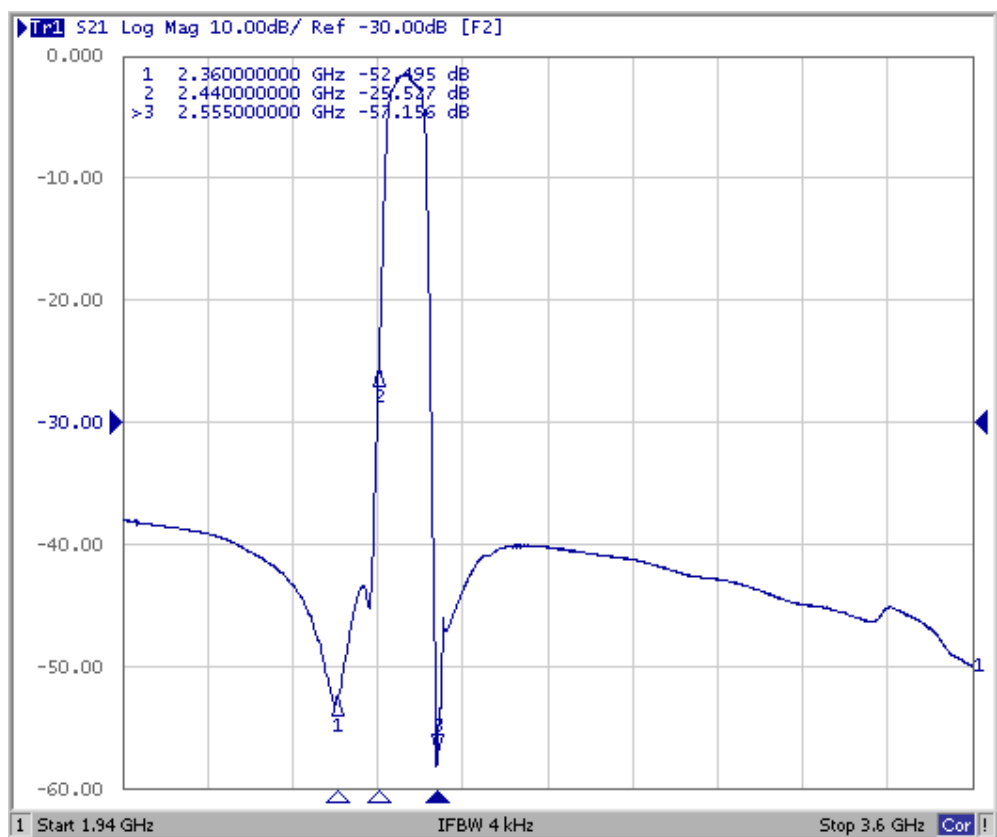
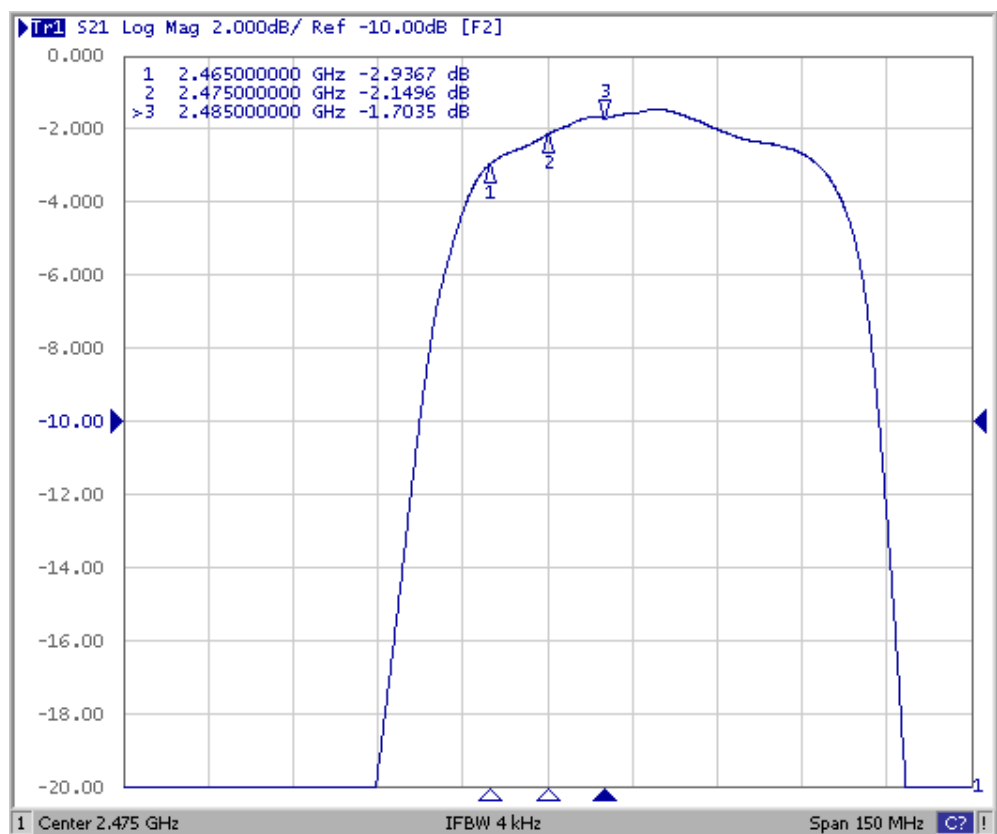
□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>i</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

E. PCB Footprint:

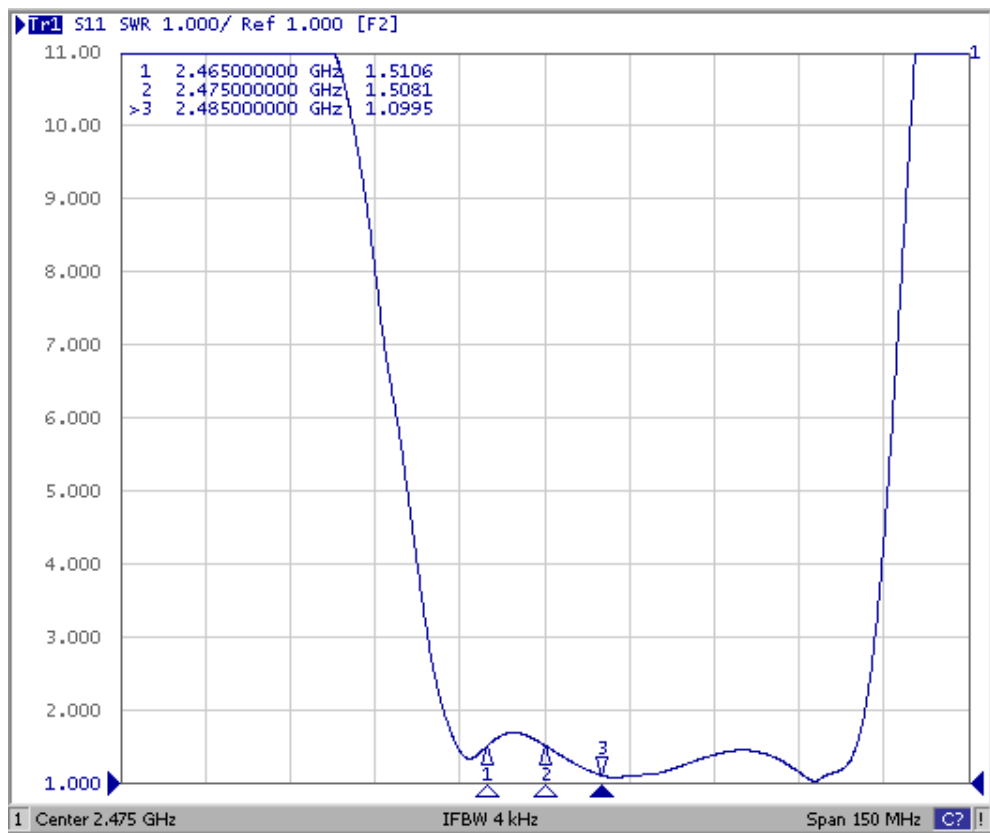


F. Frequency Characteristics:

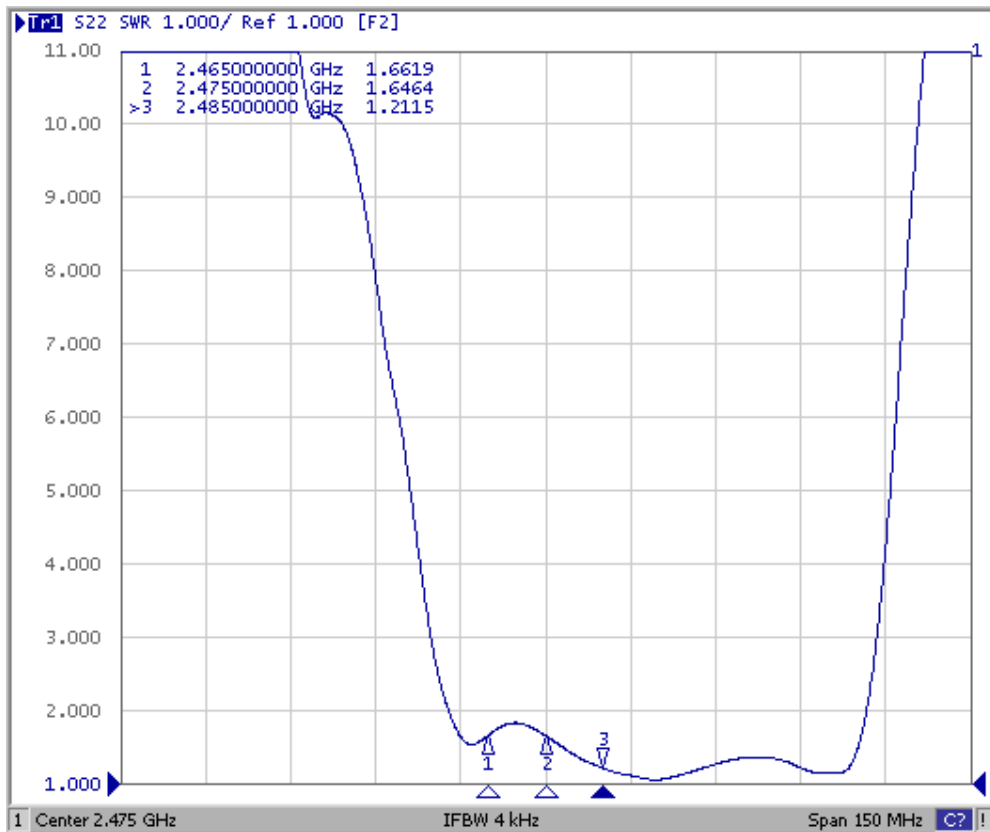


Reflection Functions:

S11



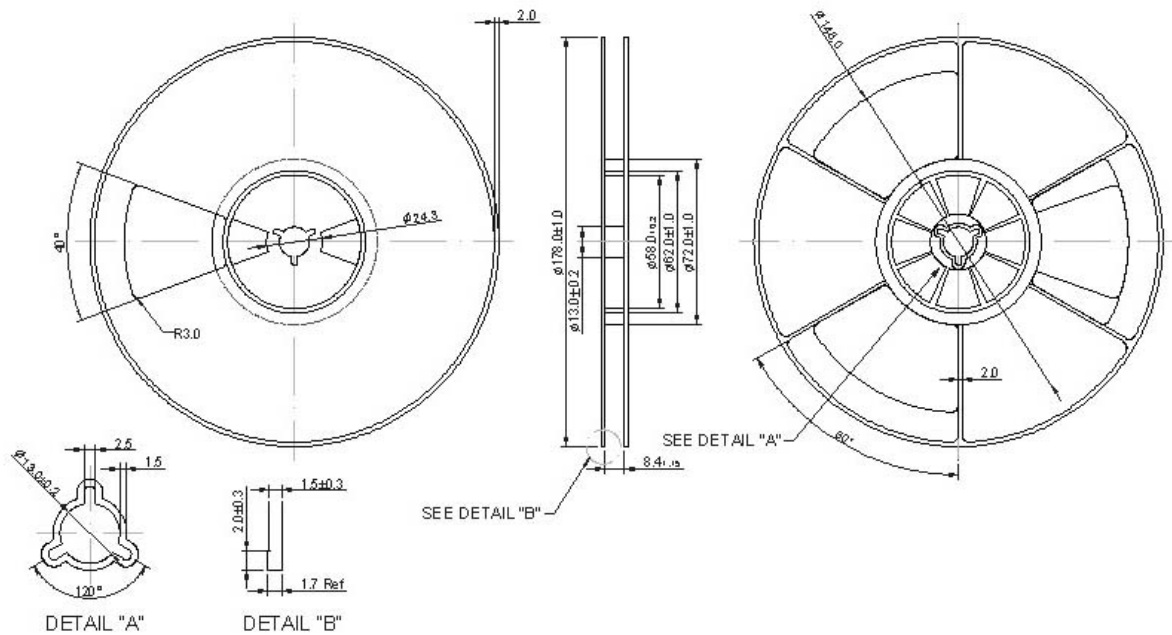
S22



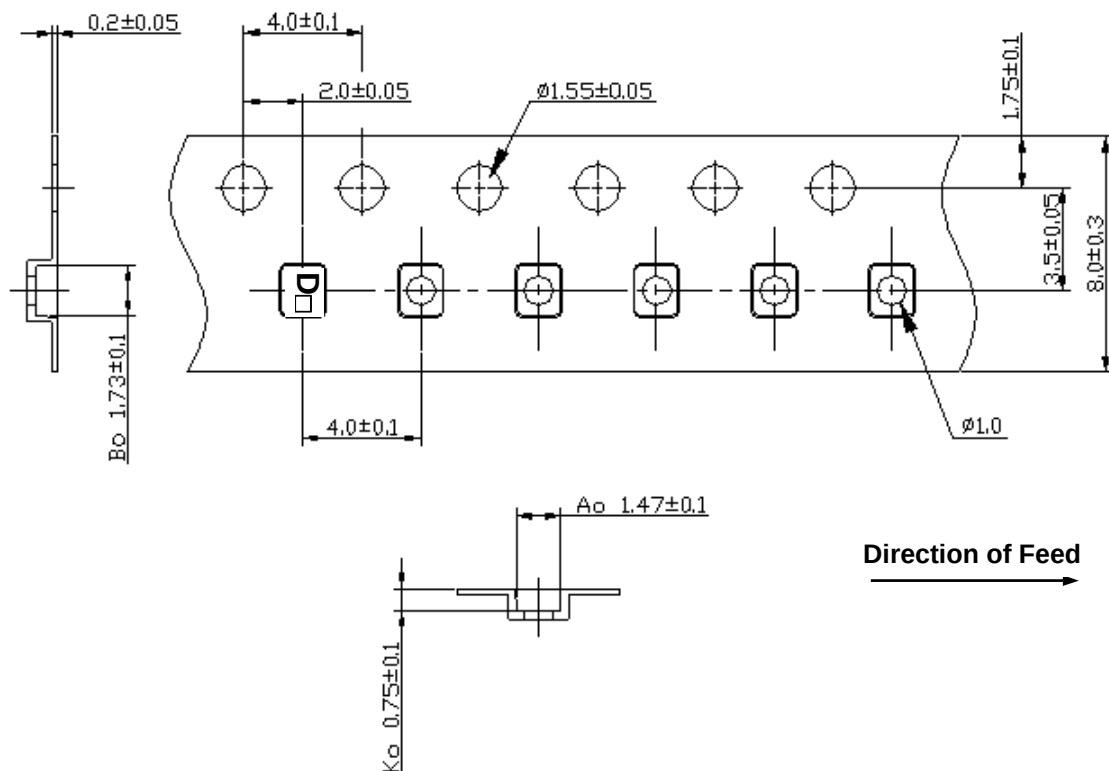
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°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).
4. Time: 2 times.

