



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 2441.75MHz (BW 83.5MHz) SMD 1.4×1.1mm

TST Part No.: TA1834B (This part is compliant with AEC-Q200)

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen

Approved by: _____ Bob Chau

Date: _____ 05, 12, 2017

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 change



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SAW Filter 2441.75MHz (BW 83.5MHz) SMD 1.4×1.1mm

MODEL NO.:TA1834B

REV.1.0

A. MAXIMUM RATING:

Operating Temperature: -40℃ to +85℃

Storage Temperature:-40℃ to +100℃

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Electrostatic Sensitive Device (ESD)

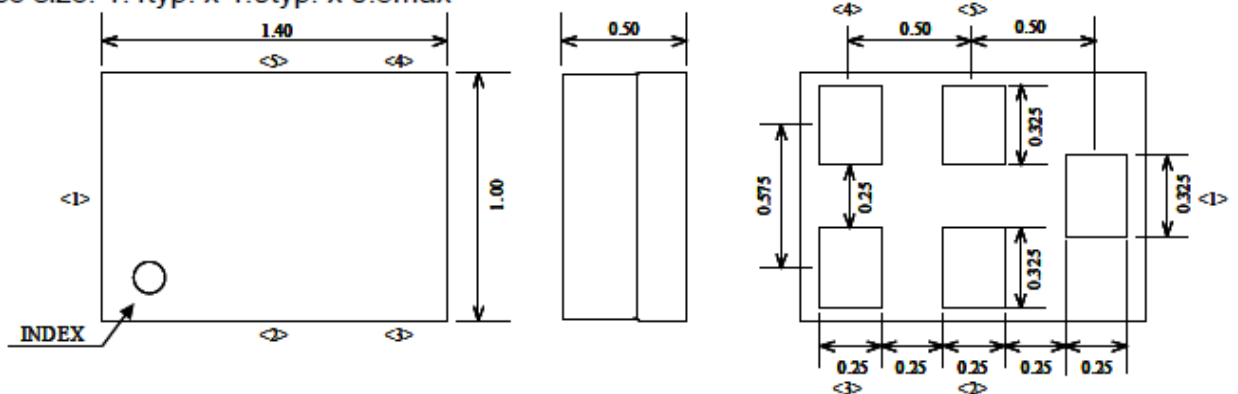
Input impedance: 50//8.3nH Ω

Output impedance: 50//12.0nH Ω

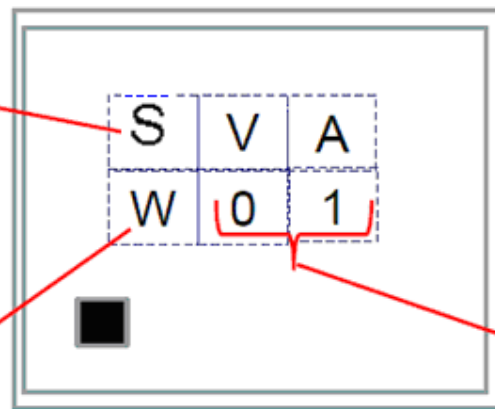
Parameters Description		Unit	Minimum	Typical	Maximum	Remarks
Insertion Loss	2400~2483.5 MHz	dB	-	3.0	3.5	
Amplitude Ripple	2400~2483.5 MHz	dB	-	1.2	1.9	
VSWR	Input	dB	-	2.1	2.5	
	Output	dB	-	2.1	2.5	
Max. Input Power	2400~2483.5 MHz	dBm	+23dBm(200mW) > 10kh Spectrum spread signal (IEEE.802.11g) Ta=+55℃			
DC~1000 MHz		dB	40	49	-	
1000~1570 MHz		dB	37	47	-	
1570~1700 MHz		dB	35	44	-	
1700~1880 MHz		dB	34	40	-	
1880~1990 MHz		dB	33	37	-	
1990~2170 MHz		dB	31	33	-	
2700~4800 MHz		dB	19	24	-	
4800~5000 MHz		dB	18	24	-	

C.OUTLINE DRAWIN:

Device size: 1.4typ. x 1.0typ. x 0.5max



TAI-SAW
Original No.



Lot No.is indicated by
Arabic numerals 0 to 9
or characters A to Z and
a to z(However,except
I,O,I,I and o).

Lot No.

Date Code
(Complied to EIAJ)
2014 Sep:W

3-3 Product date code(EIAJ)

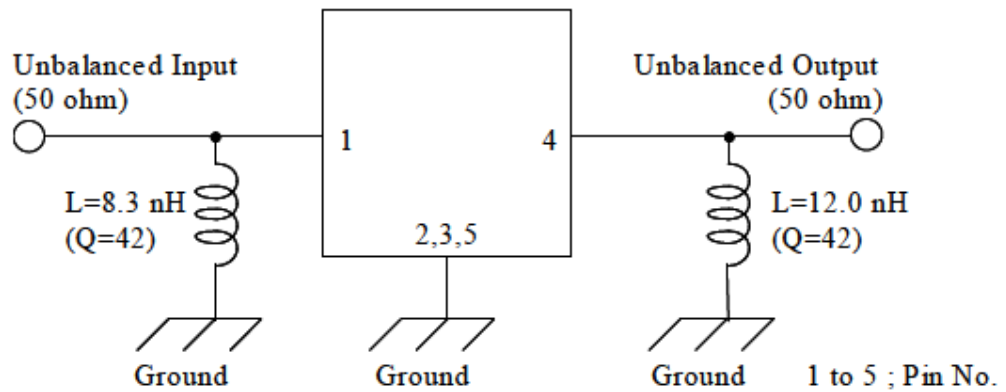
Table-1

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m

Pin Configuration

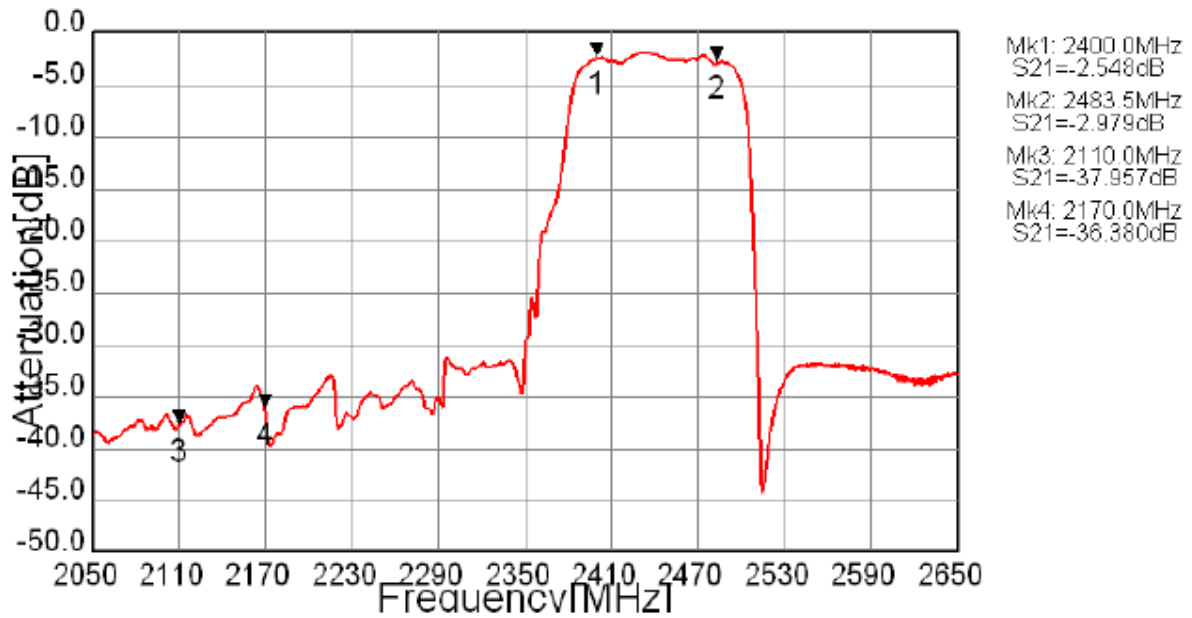
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

D. MEASUREMENT CIRCUIT:

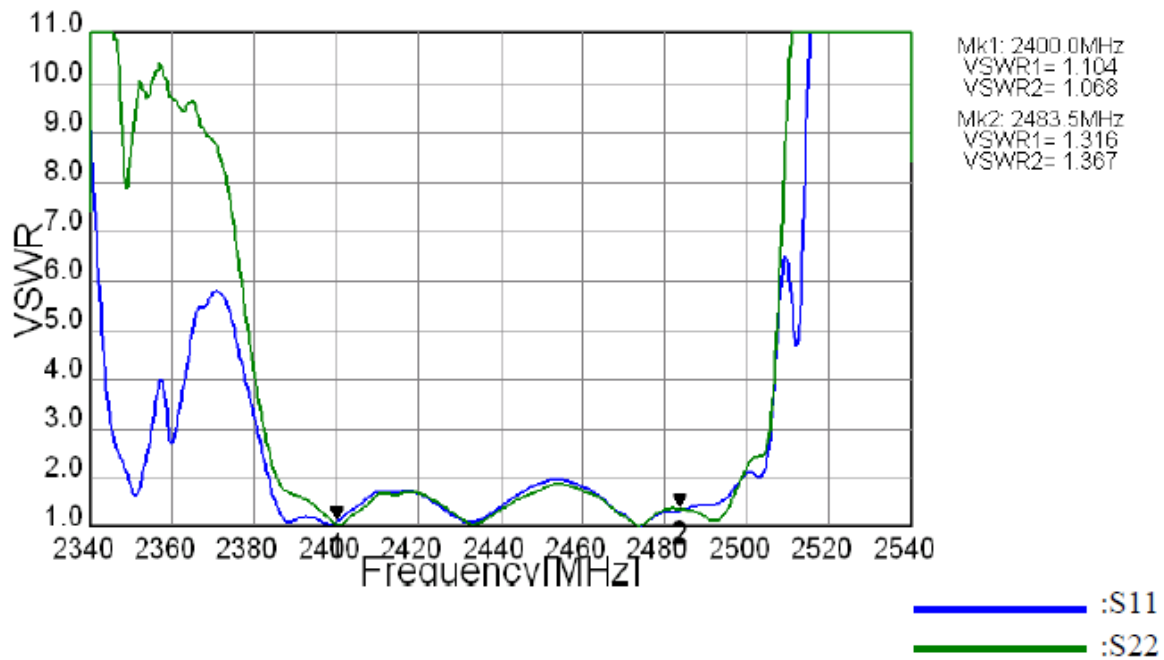


E. FREQUENCY CHARACTERISTICS:

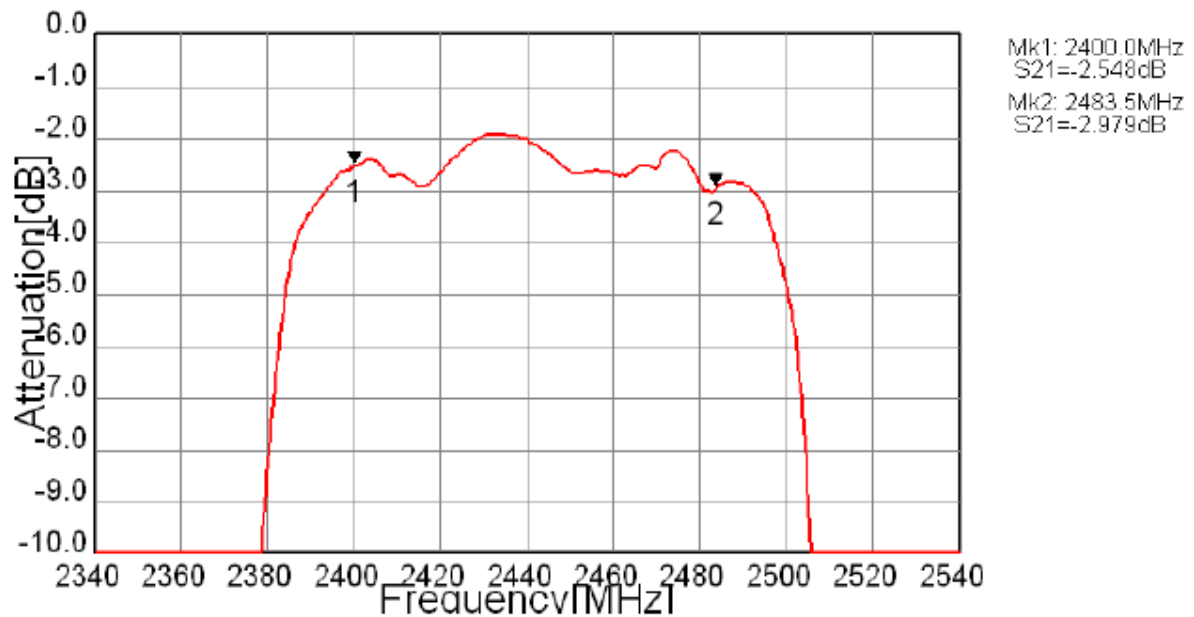
Pass-band



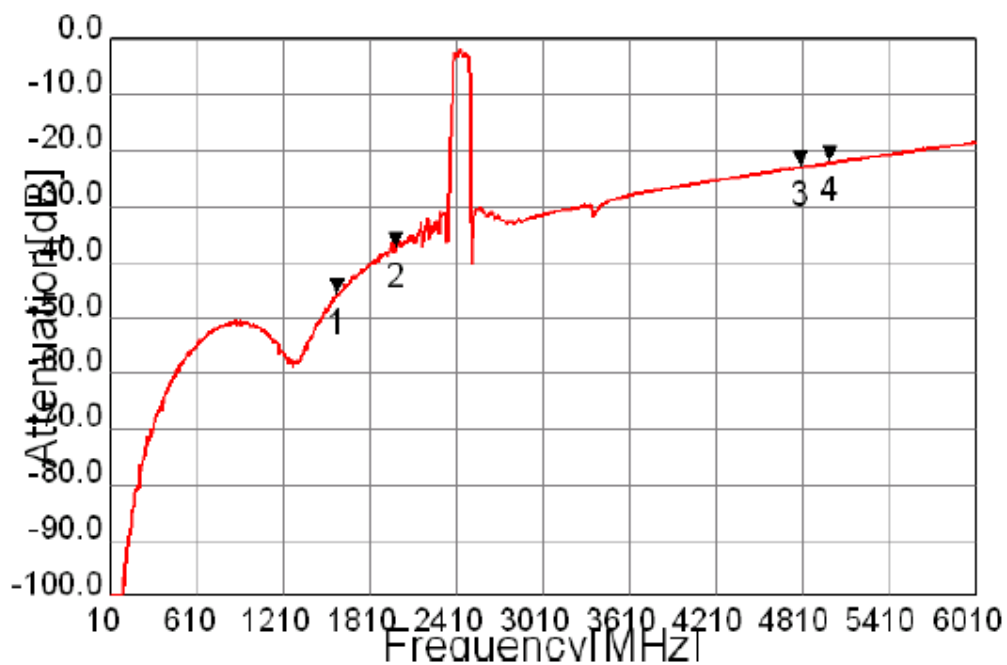
VSWR



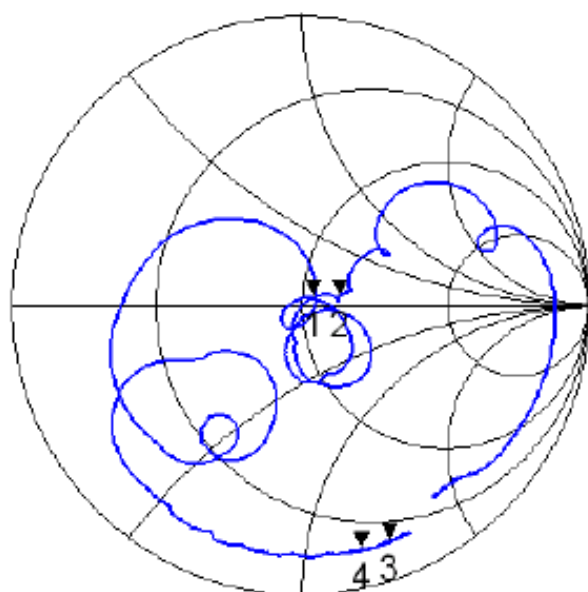
In-band



Wide-band



Input Impedance



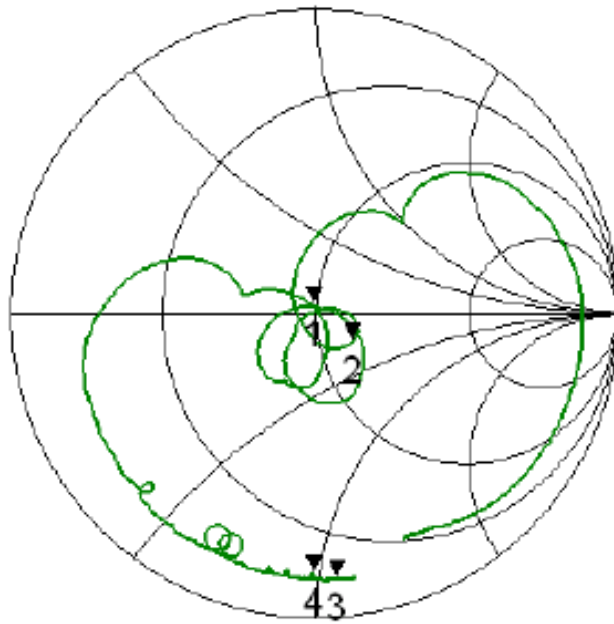
Mk1: 2400.0
S11= 1.082 + j 0.062

Mk2: 2483.5
S11= 1.303 + j 0.086

Mk3: 2110.0
S11= 0.209 - j 1.422

Mk4: 2170.0
S11= 0.185 - j 1.265

Output Impedance

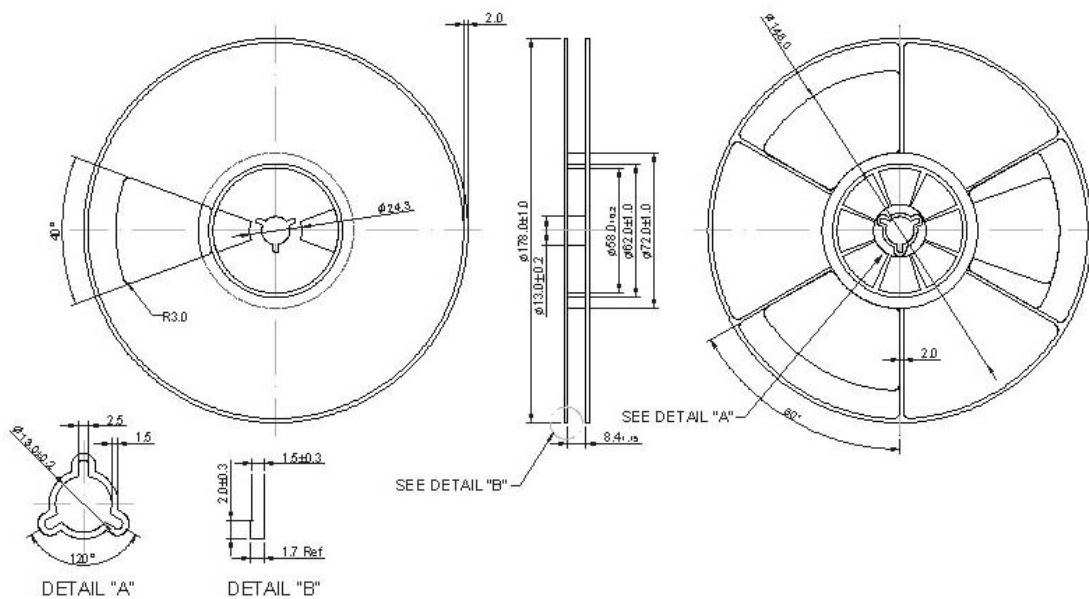


Mk1: 2400.0
 $S_{22} = 0.982 + j 0.062$
 Mk2: 2483.5
 $S_{22} = 1.248 - j 0.248$
 Mk3: 2110.0
 $S_{22} = 0.145 - j 1.072$
 Mk4: 2170.0
 $S_{22} = 0.157 - j 0.978$

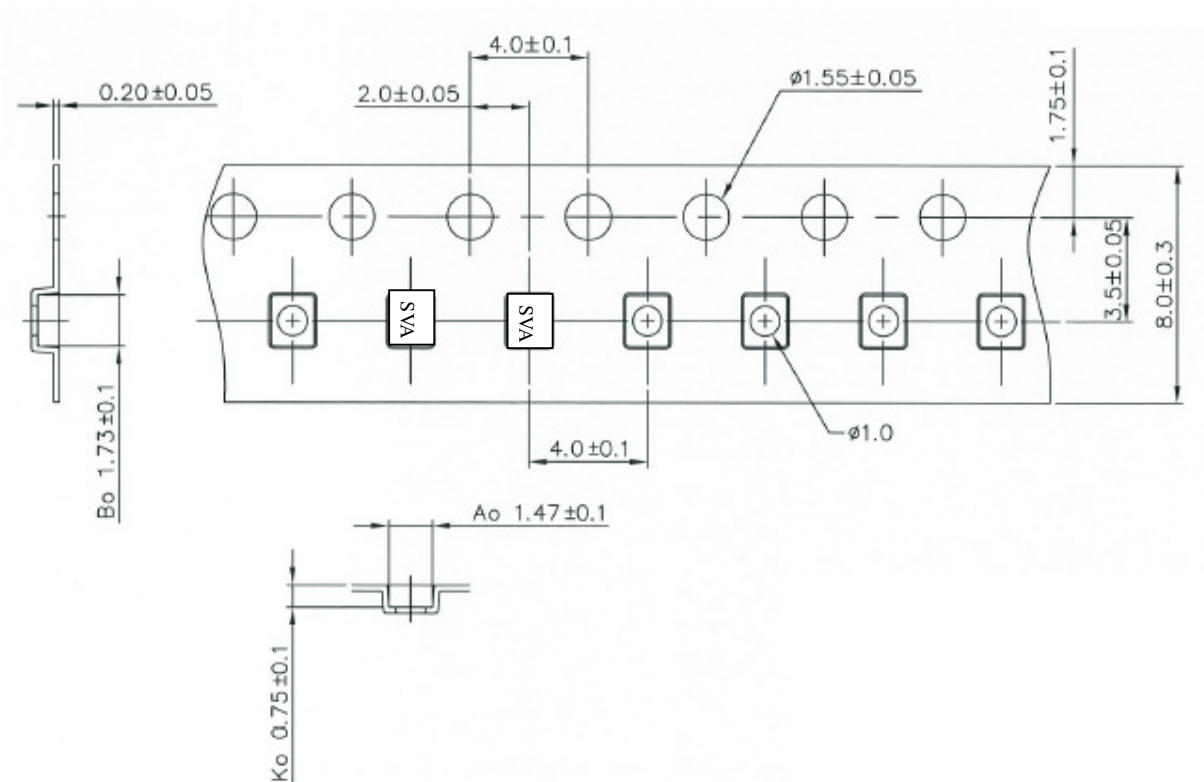
F. PACKING:

1. REEL DIMENSION

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



2.TAPE DIMENSION



G. 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.

