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: SAW Filter 56MHz SMD 13.3×6.5mm

TST Parts No.:TB0752A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Kazuma Lee Kazuma Lee

Approval by: Andy Yu Andy Yu

Date: 2020/11/16

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 56 MHz(BW=13MHz) SMD 13.3mmX6.5mm

MODEL NO.: TB0752A REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -20 °C ~ +80 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input power: 10dBm
4. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant

Lead-free soldering

Electrostatic **S**ensitive **D**evice

B. Characteristics:

Ambient Temperature: 25 °C

Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency F_C	MHz	-	56.0	-	-
Minimum Insertion loss I.L. 49.5MHz ~ 62.5MHz	dB	-	13.0	15.0	-
Passband Ripple 49.5MHz ~ 62.5MHz	dB	-	1.0	1.5	-
Attenuation 10MHz ~ 45MHz 70MHz ~ 200MHz	dB dB	40 40	46 43	- -	-
Substrate Material		YZ-LiNbO3			-
Temp Coefficient ppm/K		-	-94	-	-
Matching: 1.The input of the filter will be matched to 50 ohm 2.The output of the filter will be matched to 50 ohm					

C. FREQUENCY CHARACTERISTICS:

1.S21 Response: (span : 100MHz)

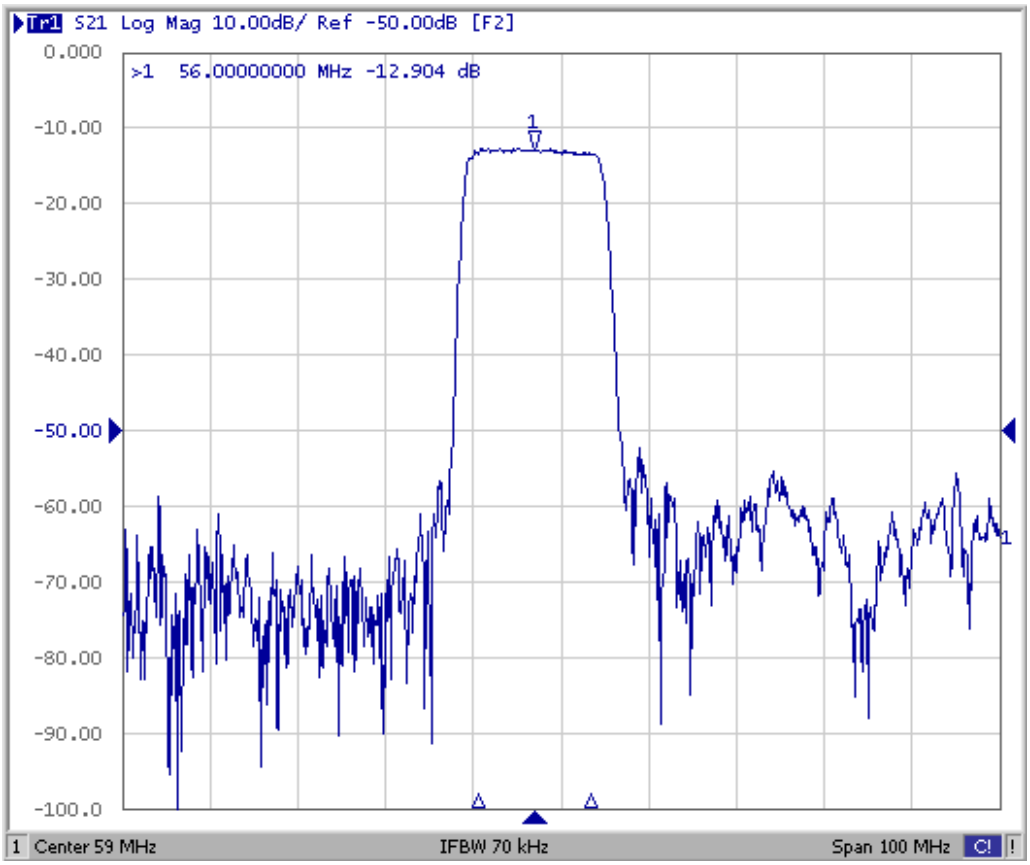


Fig1. Horizontal:10MHz/Div Vertical: 10dB/Div

2. Group-Delay Ripple: (span : 20MHz)

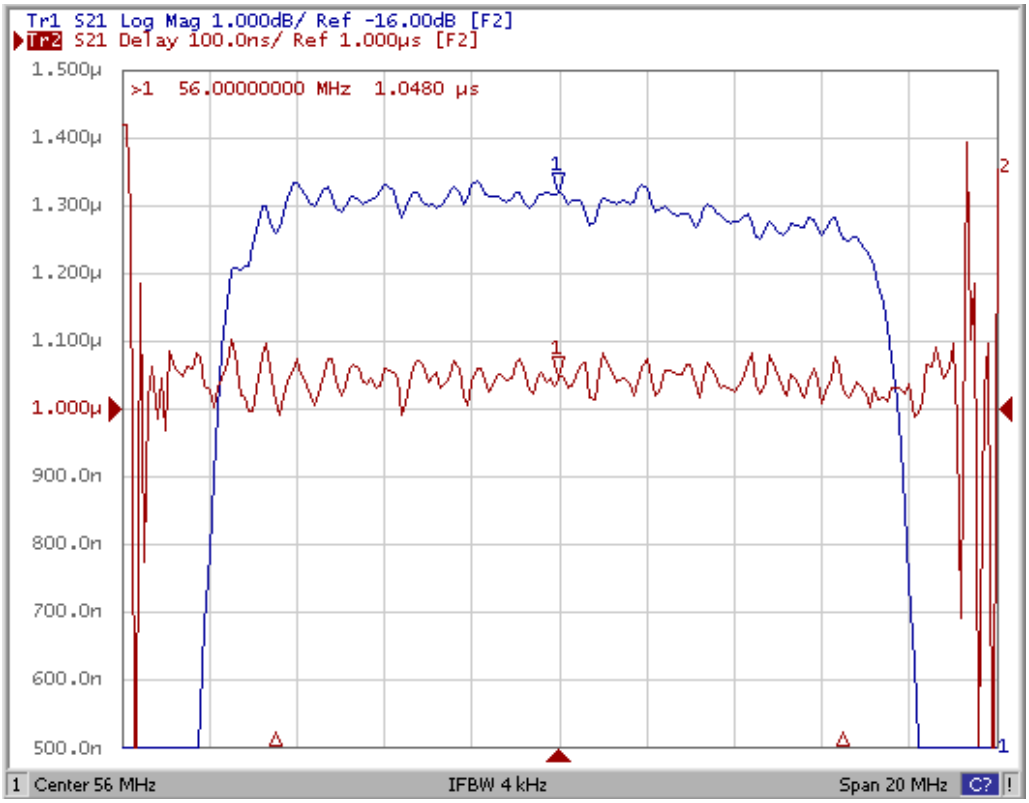
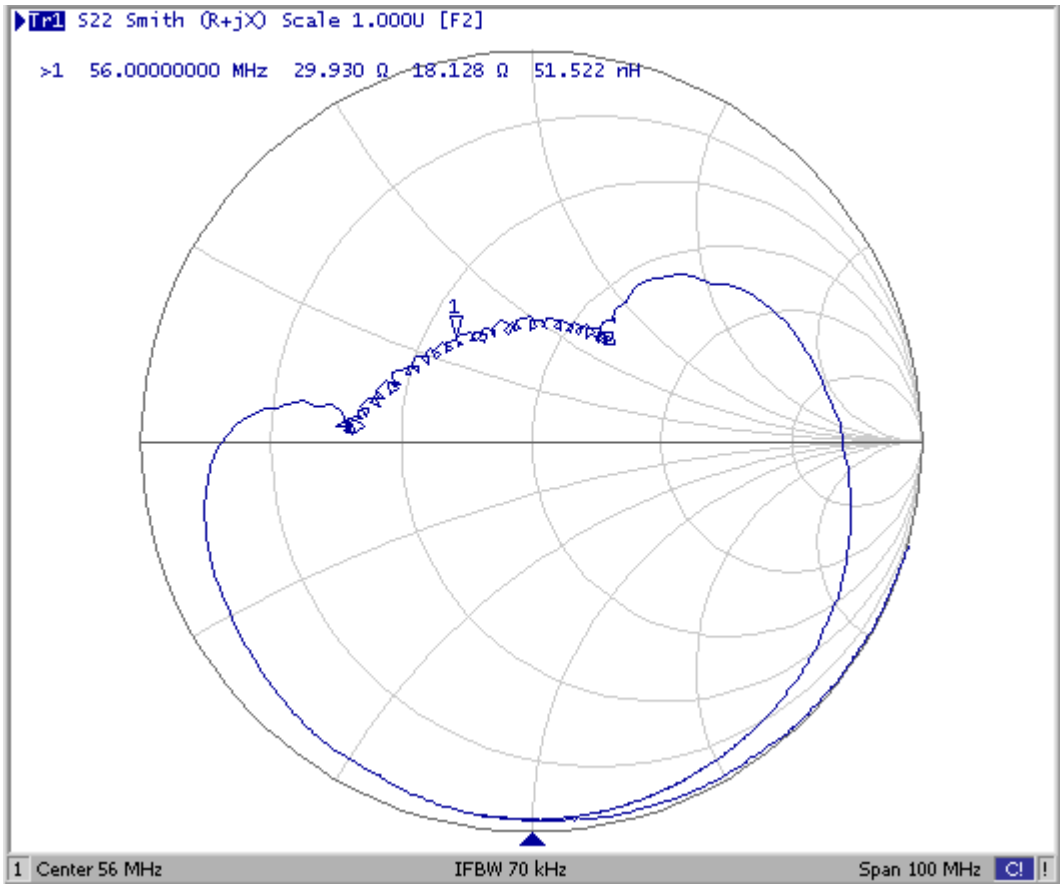
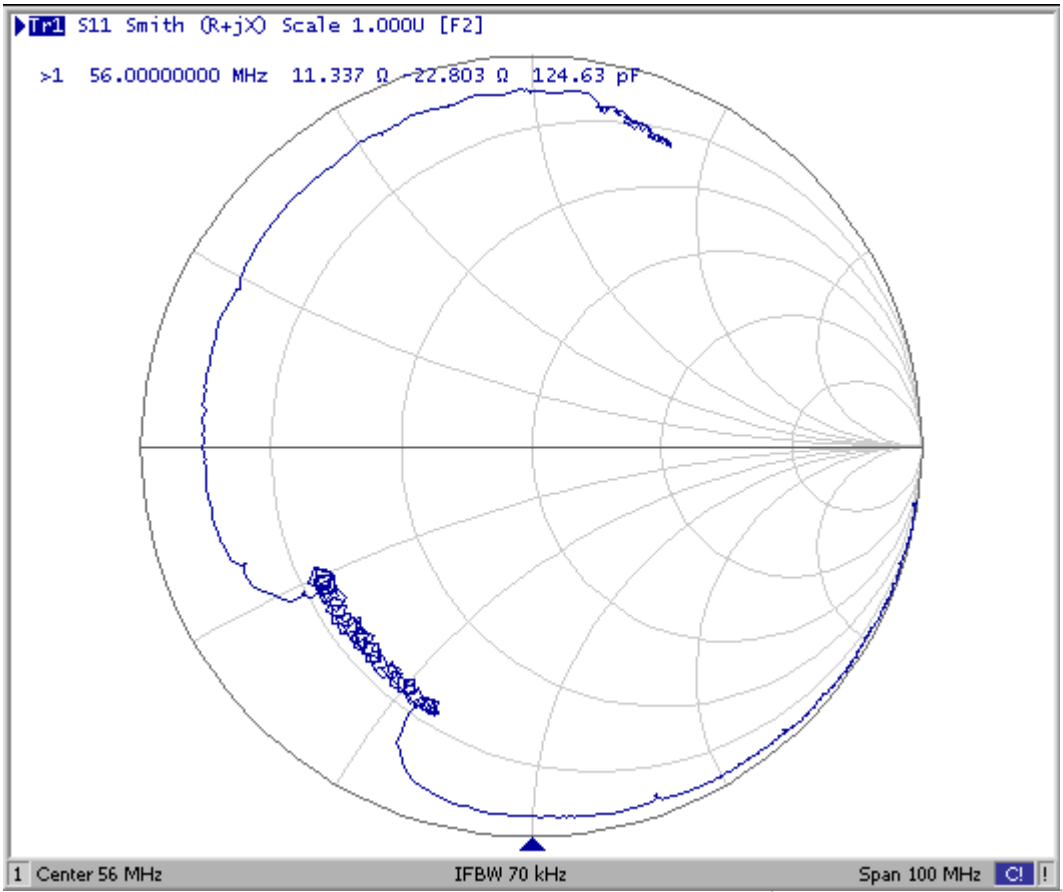


Fig2. Horizontal: 2.0MHz/Div Vertical: 100nec/Div

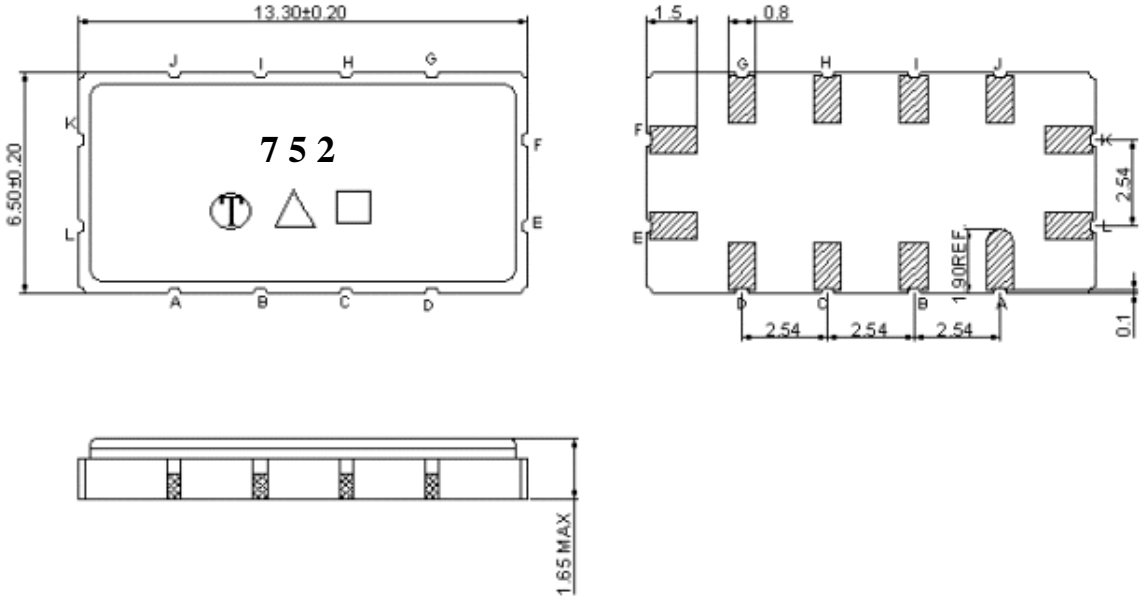
3. S11 Smith Chart: (span : 100MHz)



4. S22 Smith Chart (span : 100MHz)



D.OUTLINE DRAWING:



Pin K: RF input

Pin E: RF output

Pin A, B, C, D, G, H, I, L, F J: To be Ground

□ : Week Code

Unit : mm

△ : Product / Year Code

Product / Year Code- 4year cycle

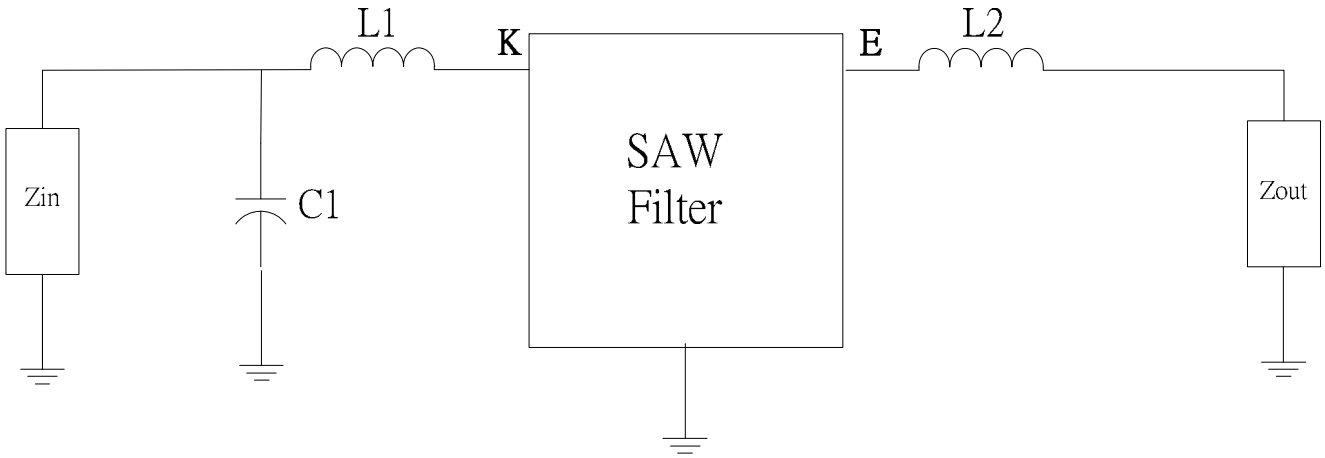
Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	B	b	B	b

Week 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

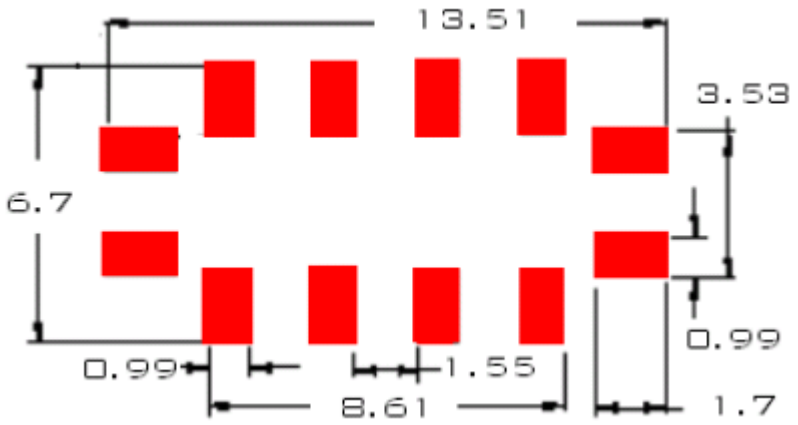
E. MEASUREMENT CIRCUIT:

Zin= Zout= 50 ohm



L1=300nH, C1=39pF, L2=150nH.

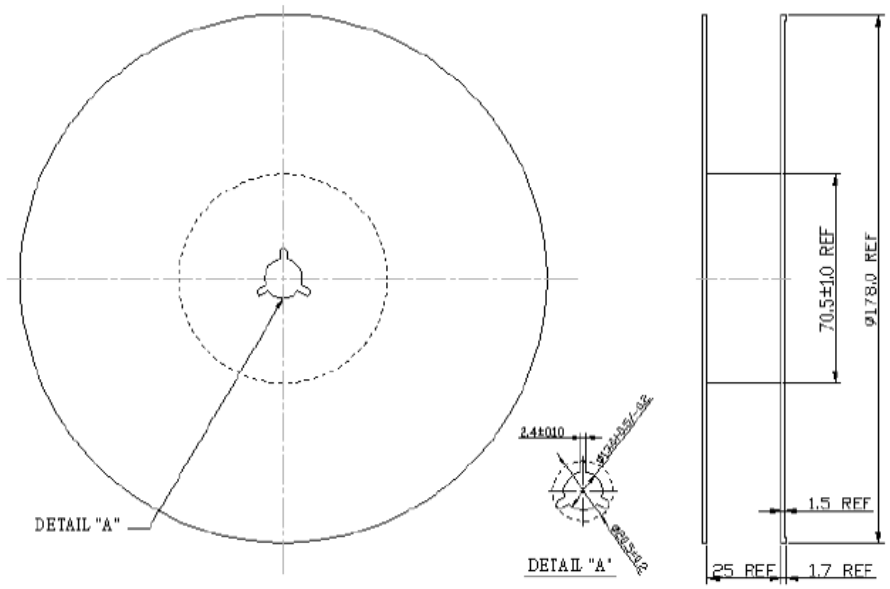
F. PCB Footprint:



Unit: mm

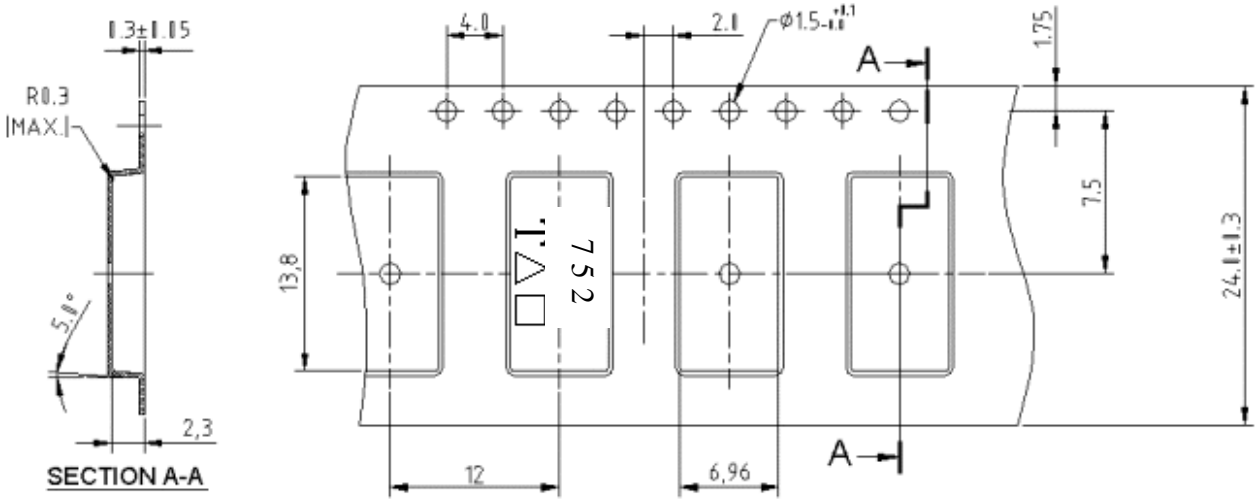
G. PACKING:

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



Unit: mm

2. TAPE DIMENSION



Unit: mm

H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.