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 Rx Filter 2655 MHz LTE Band 7 SMD 1109

TST Parts No.: TA1847DA

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ V.J Fanchian _____

Approval by:_____ Andy Yu _____

Date:_____ 2020/10/16 _____

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 Rx Filter 2655 MHz LTE Band 7 SMD 1109(70MHz BW)

MODEL NO.: TA1847DA REV. NO.:2.0

A. MAXIMUM RATING:

1. Maximum Input Power: 10 dBm
2. DC voltage: 0 V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 3 (MSL 3)
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

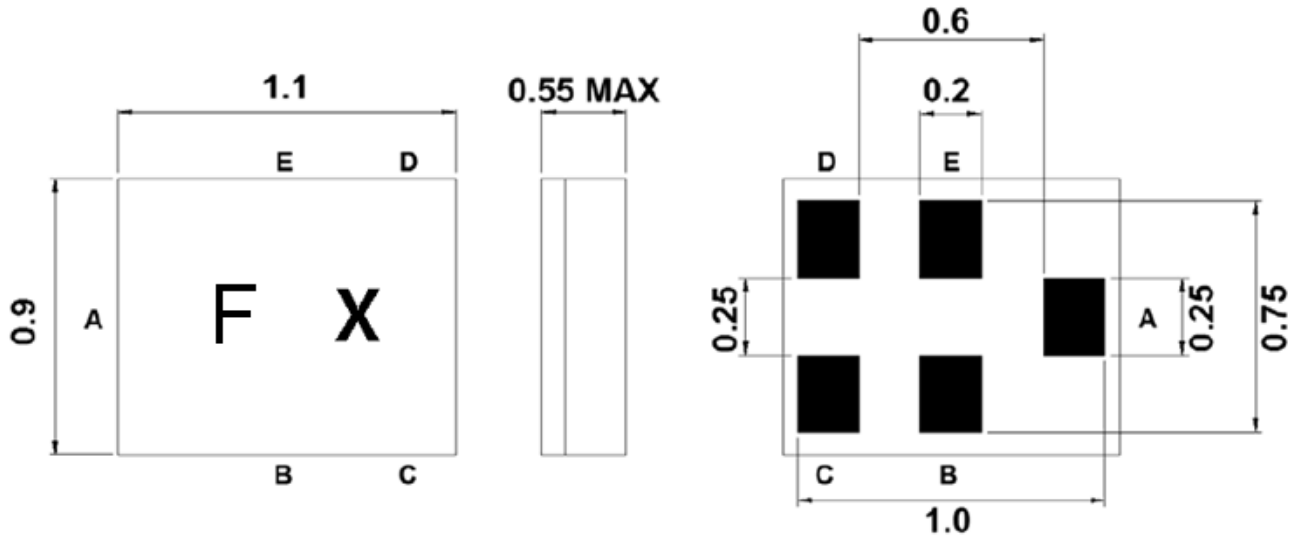
Terminating source impedance: Zs = 50Ω//6.9nH (Single)

Terminating load impedance: Z_L = 50Ω//12nH (Single)

Parameters Description		Unit	Mini.	Typical	Max.
Center Frequency (Fo)		MHz	-	2655.0	-
Insertion Loss	**2620.0 ~ 2690.0 MHz**	dB	-	2.4	3.0
Amplitude Ripple		dB_{p-p}	-	1.2	2.0
Input VSWR		-	-	2.1	2.3
`Output VSWR		-	-	2.1	2.3
Attenuation					
10 ~ 2400.0 MHz		dB	25	31	-
45.0 MHz		dB	50	80	-
2400.0 ~ 2500.0 MHz		dB	25	33	-
2500.0 ~ 2570.0 MHz		dB	33	38	-
2570.0 ~ 2600.0 MHz		dB	2	4	-
2775.0 ~ 6000.0 MHz		dB	25	33	-
7620.0 ~ 7830.0 MHz		dB	15	28	-
7860.0 ~ 8000.0 MHz		dB	15	31	-

Notes : (1) With Matching Network .

C.OUTLINE DRAWING:



Pin Description	
B, C, E	Ground
A	Input
D	Output

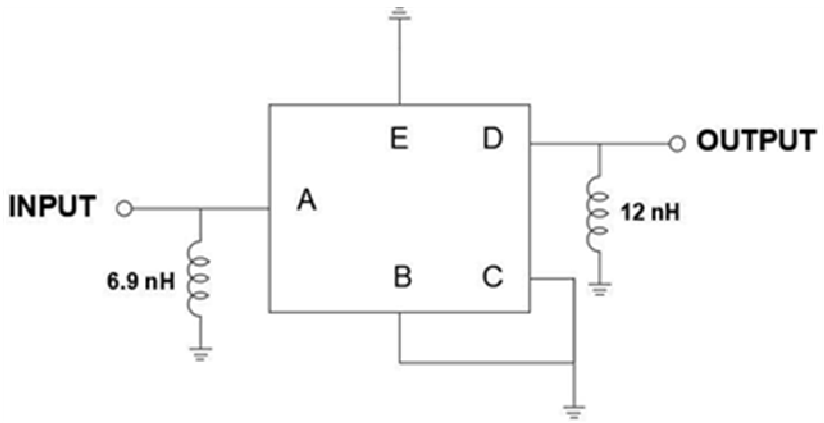
Marking Descriptions:

F : Series Number

X : Year/Month Code (Follow the table)

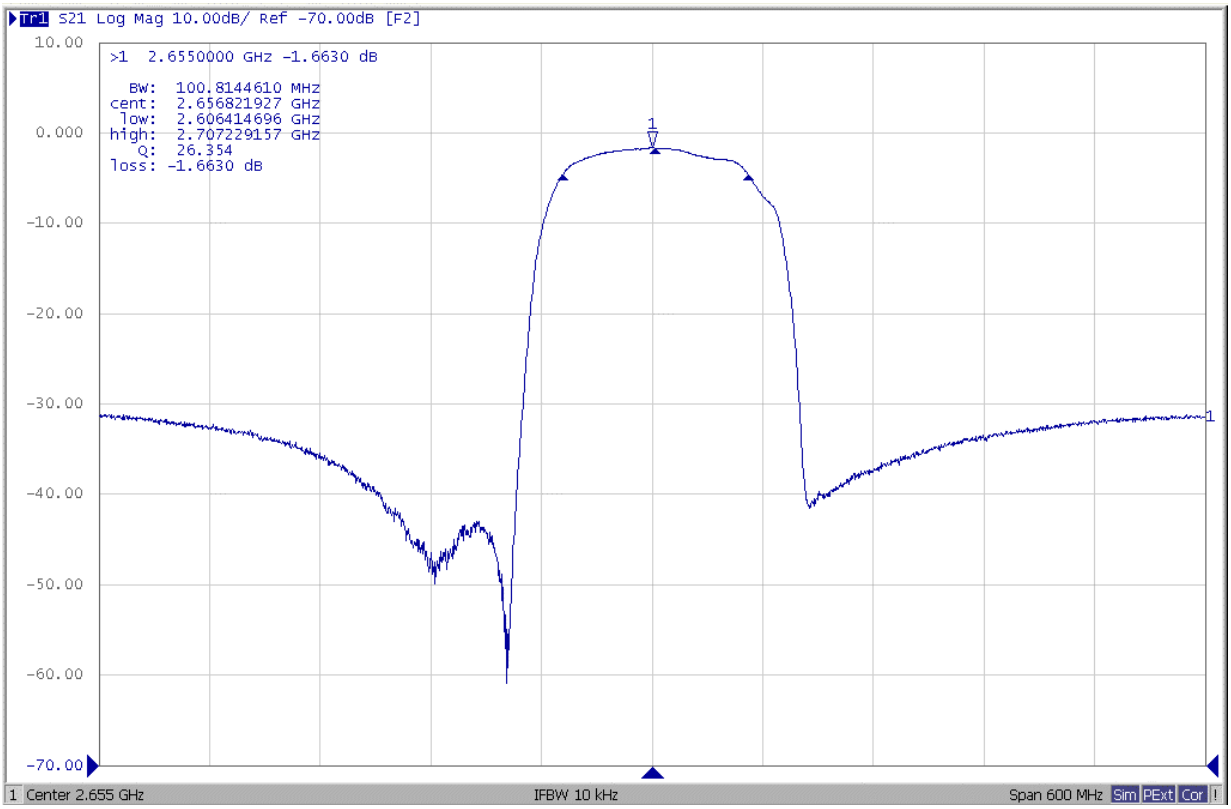
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z

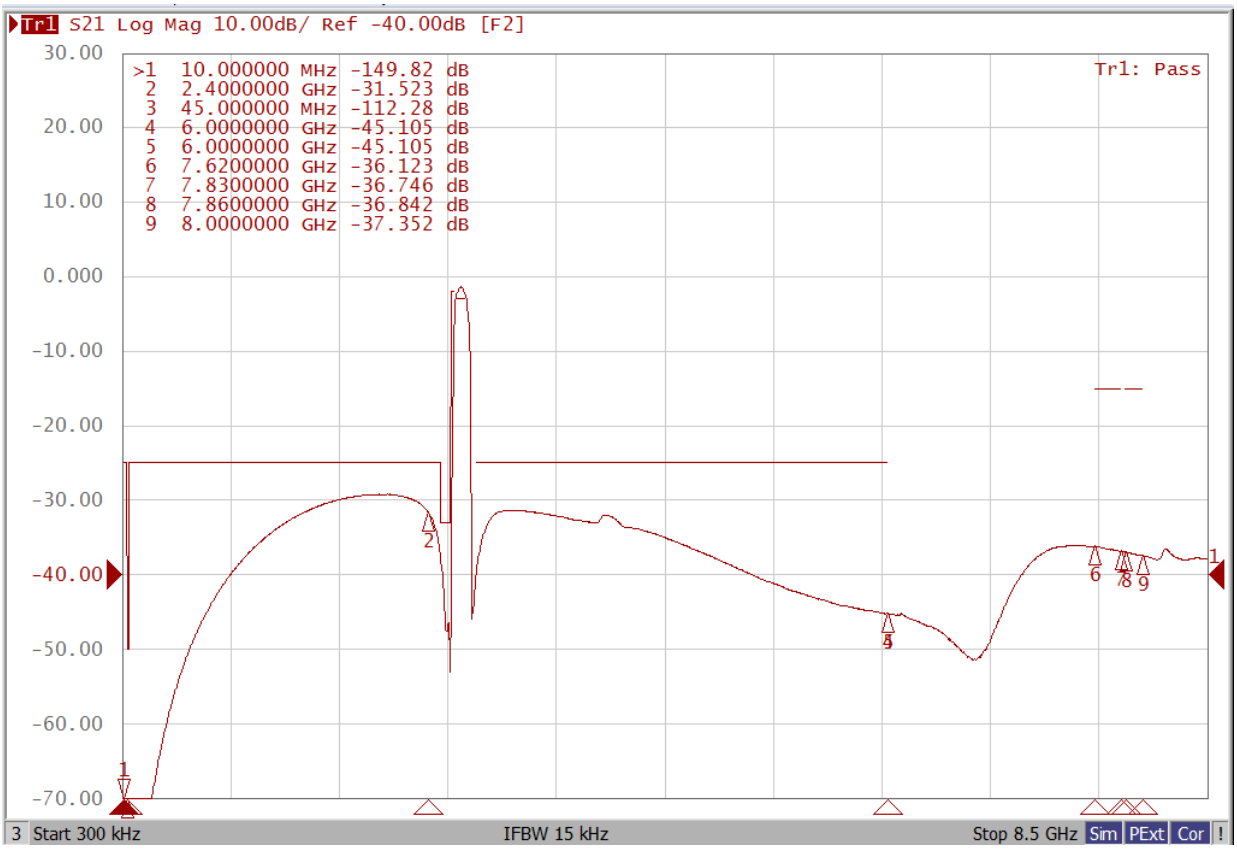
D. MEASUREMENT CIRCUIT:



E. FREQUENCY CHARACTERISTICS:

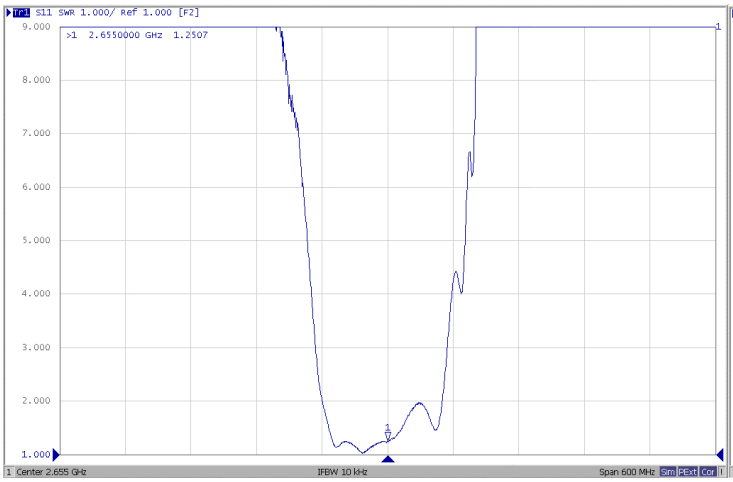
Frequency Response



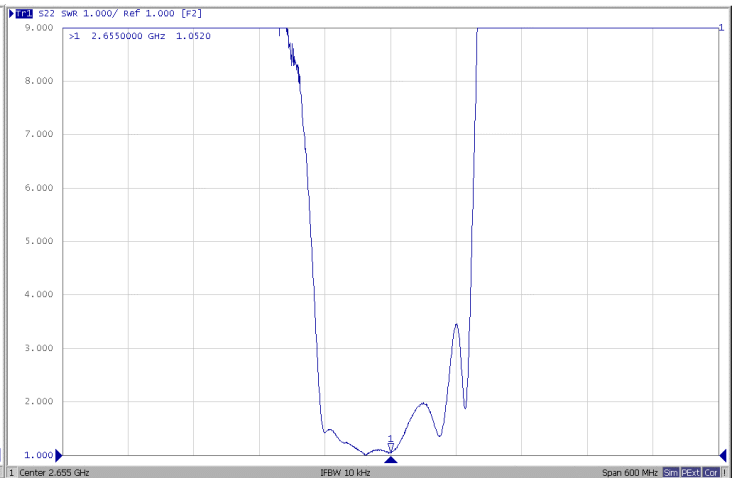


VSWR

S11

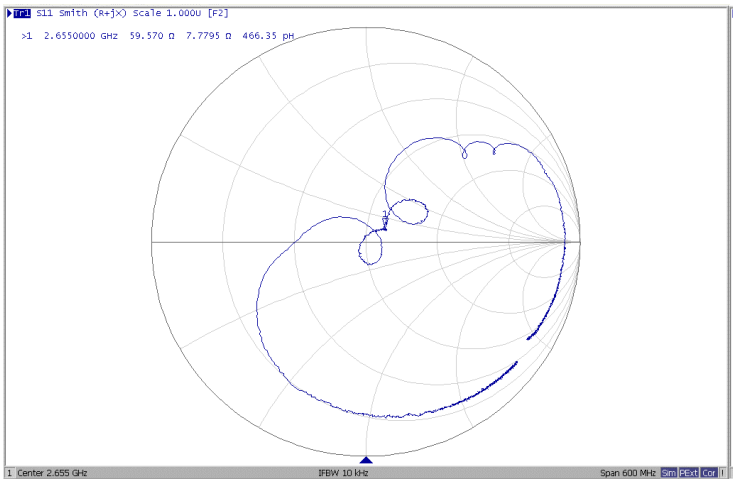


S22

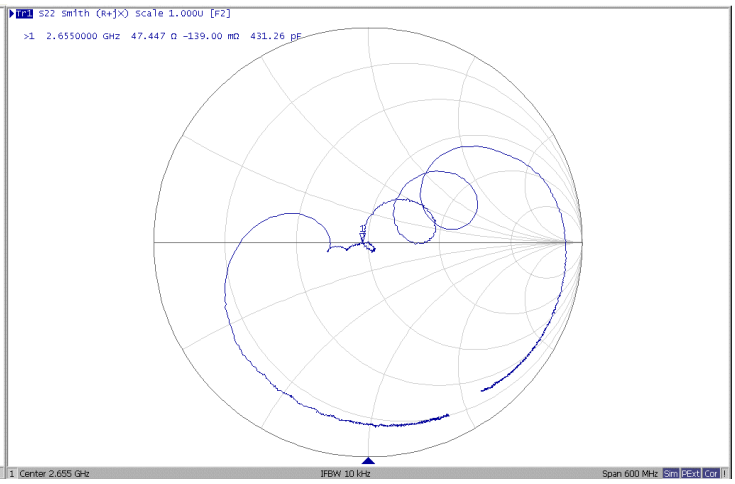


Smith Chart

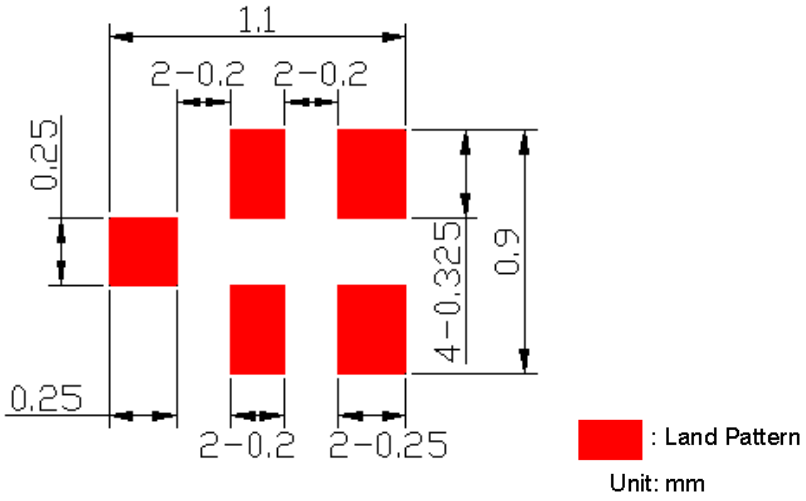
S11



S22

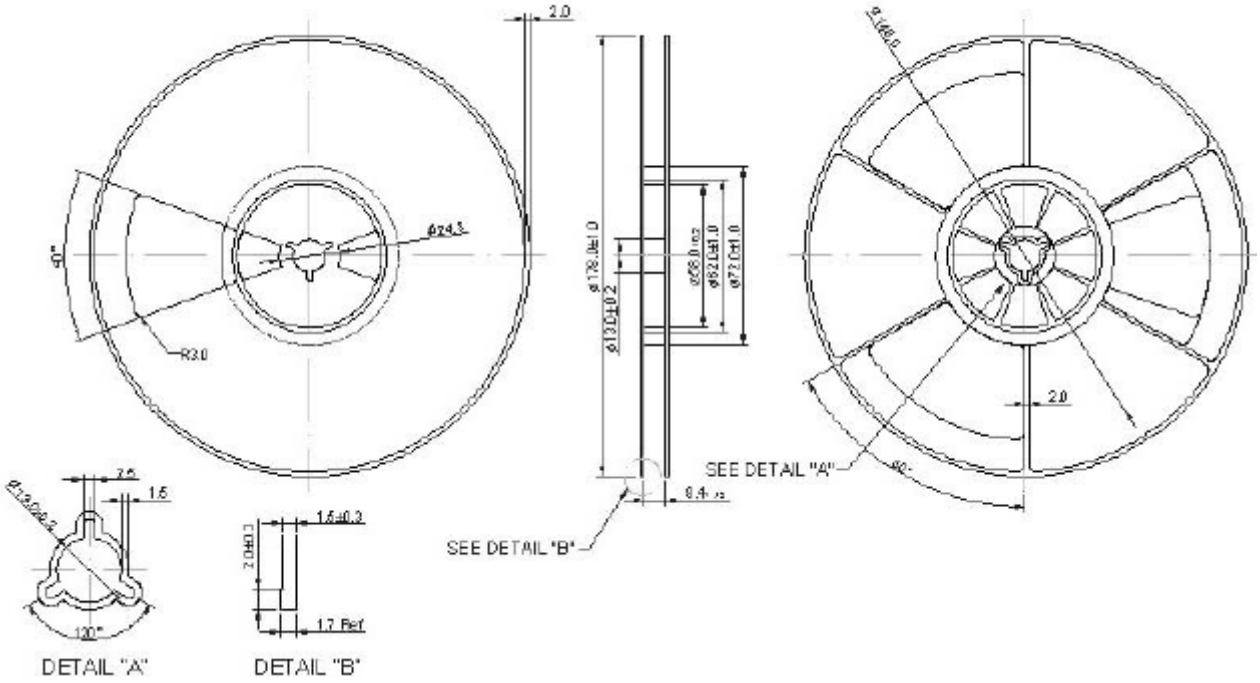


F. PCB Footprint:

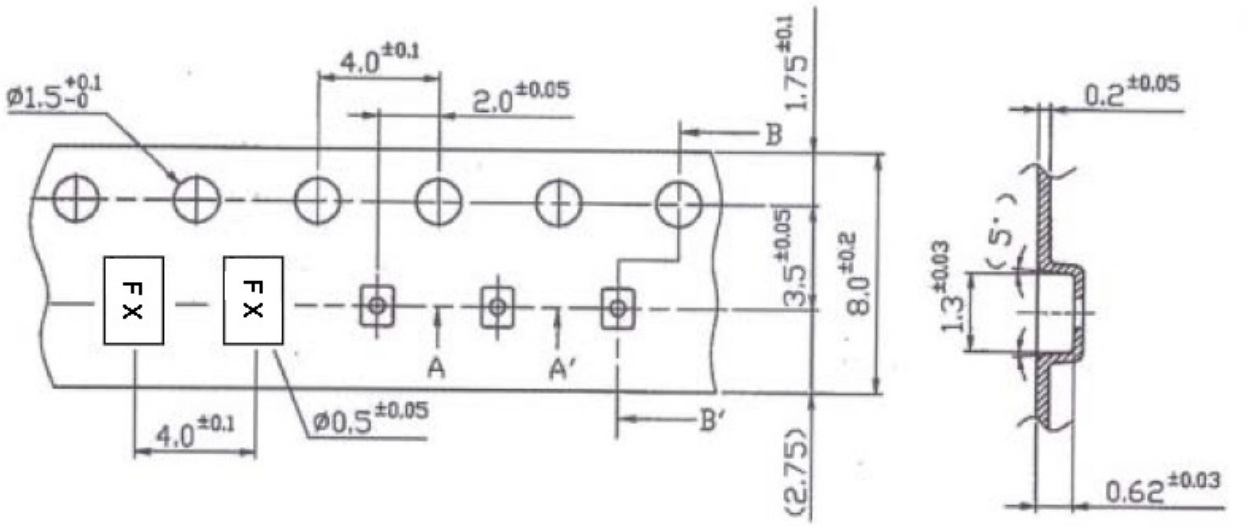


G. PACKING:

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℃ 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.