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 Name: SAW Filter 2450 MHz SMD 1.4x1.1 mm (BW=100 MHz)

TST Parts No.: TA1629A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Hayley Chou

Approved by: Andy Yu

Date: 2019/01/18

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

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

SAW Filter 2450 MHz

MODEL NO.:TA1629A REV. NO.:5.0

RoHS Compliant
Lead free
Lead-free soldering

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

A. MAXIMUM RATING:

1. Input Power Level: 28 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -30 ℃ to +85 ℃
4. Storage Temperature: -40 ℃ to +85 ℃
5. Moisture Sensitive Level: Level 3 (MSL3)
6. ESD: 50 V(MM), 100 V(HBM)

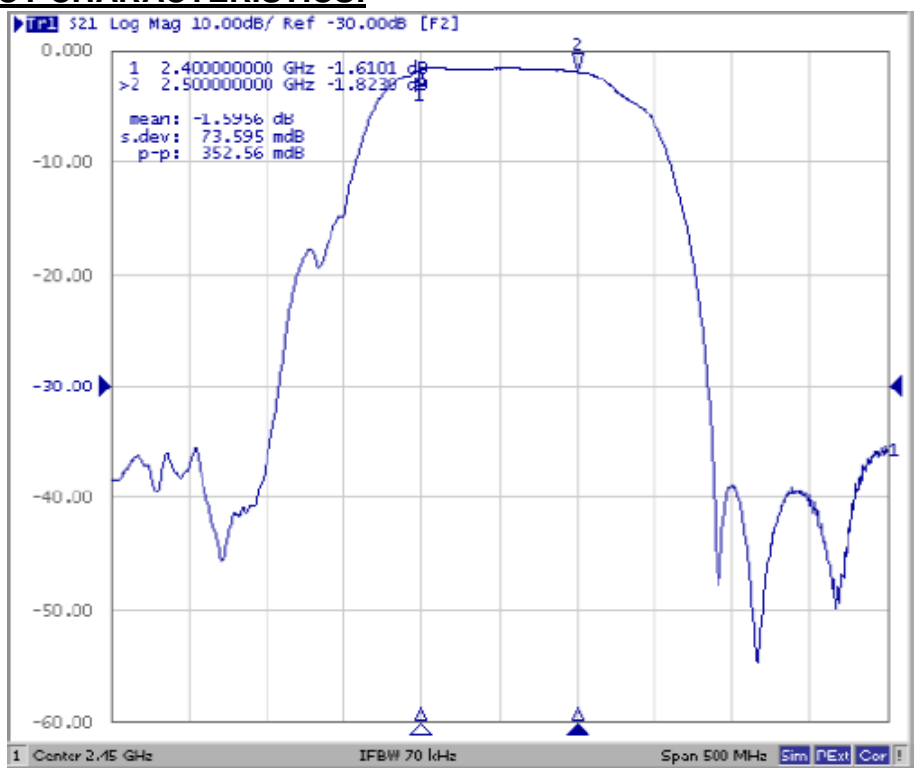
B. ELECTRICAL CHARACTERISTICS:

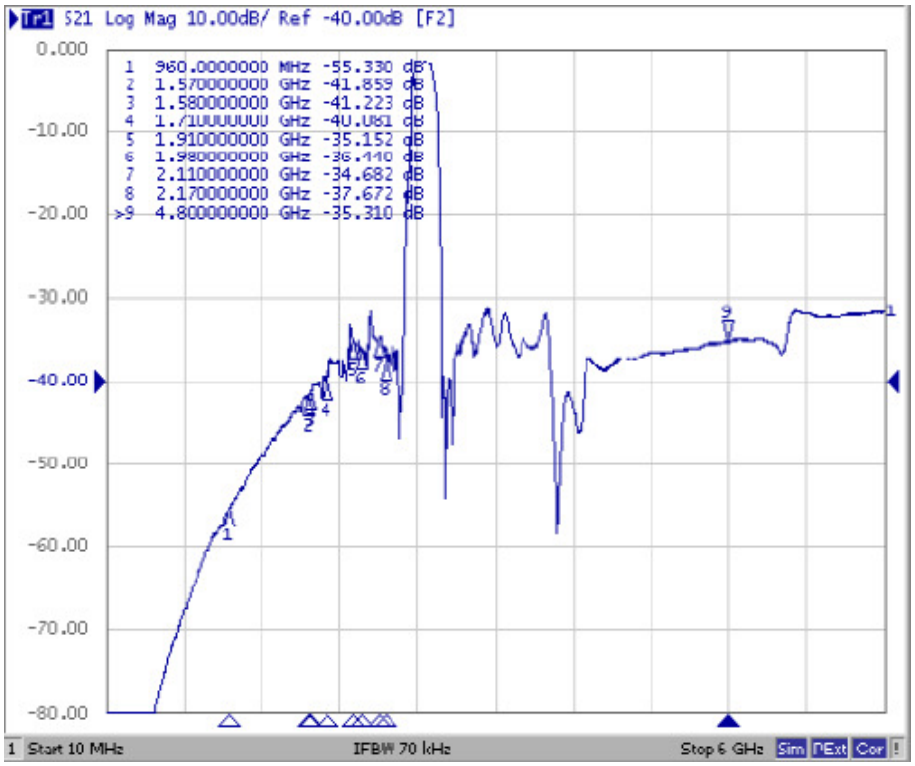
Terminating source impedance: Zs = 50//3nH Ω

Terminating load impedance: Z_L = 50//2.7nH Ω

Item		Unit	Min.	Typ.	Max.
Center Frequency	**Fc**	MHz	-	2450	-
Insertion Loss (2400~2500 MHz)	**IL**	dB	-	1.6	2.5
Amplitude Ripple (2400~2500 MHz)		dB_{p-p}	-	0.4	1.5
VSWR (2400~2500 MHz)		-	-	1.4	2.3
Attenuation (Reference level from 0 dB)					
DC ~ 960 MHz		dB	35	55	-
960 ~ 1570 MHz		dB	35	42	-
1570 ~ 1580 MHz		dB	35	41	-
1580 ~ 1710 MHz		dB	35	40	-
1710 ~ 1910 MHz		dB	30	35	-
1910 ~ 1980 MHz		dB	30	36	-
2110 ~ 2170 MHz		dB	30	35	-
2640 ~ 3000 MHz		dB	25	31	-
3000 ~ 4800 MHz		dB	25	32	-
4800 ~ 5000 MHz		dB	20	35	-
5000 ~ 6000 MHz		dB	20	32	-

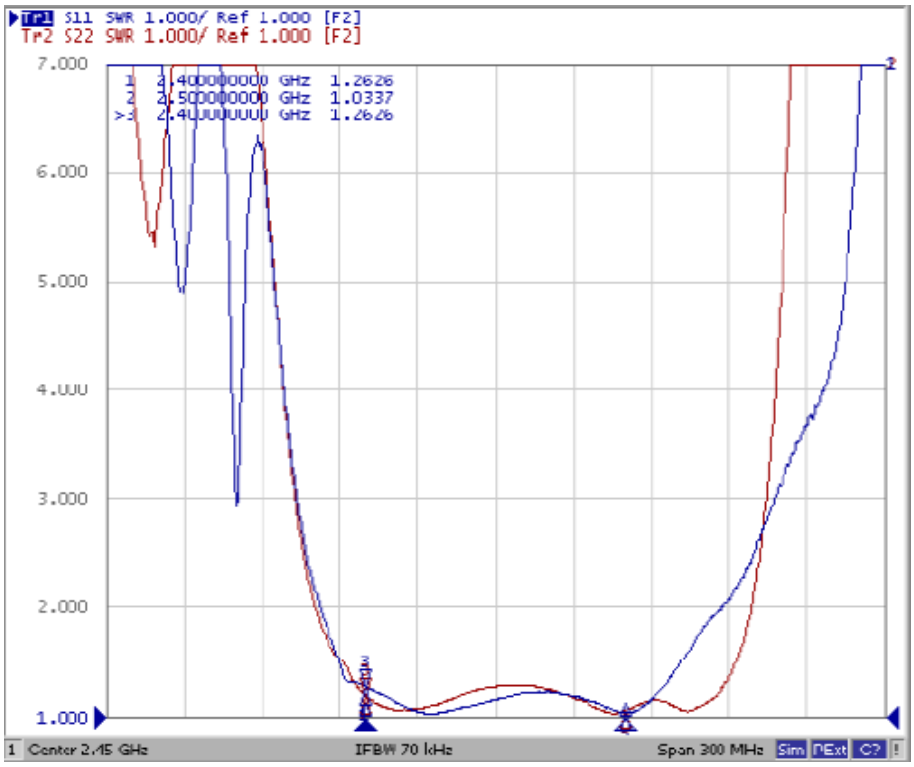
C. FREQUENCY CHARACTERISTICS:



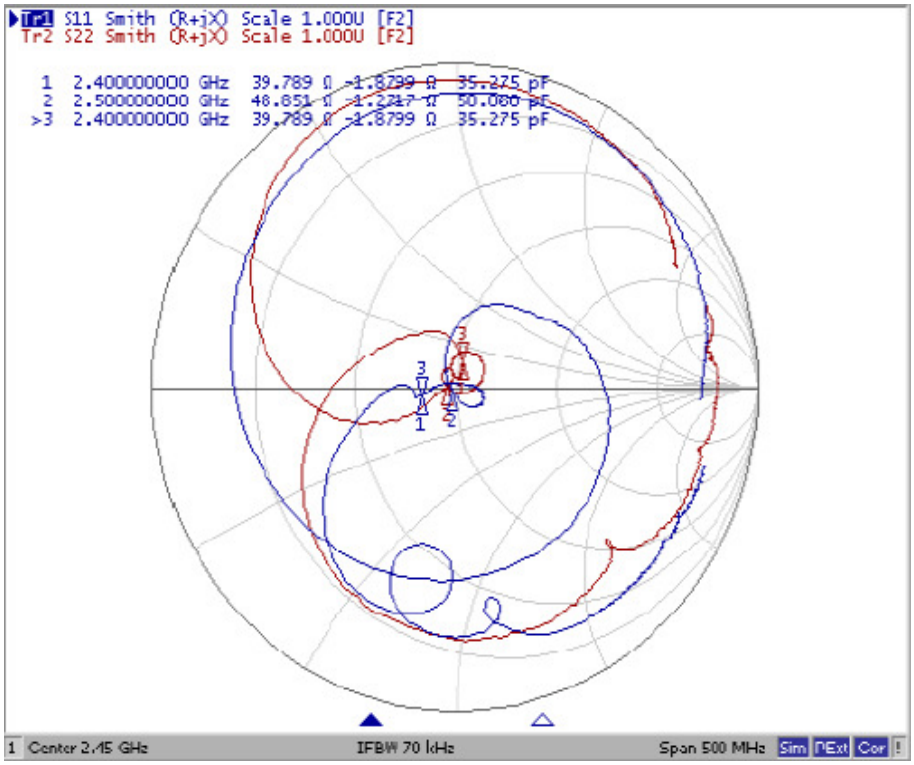


Reflection Functions:

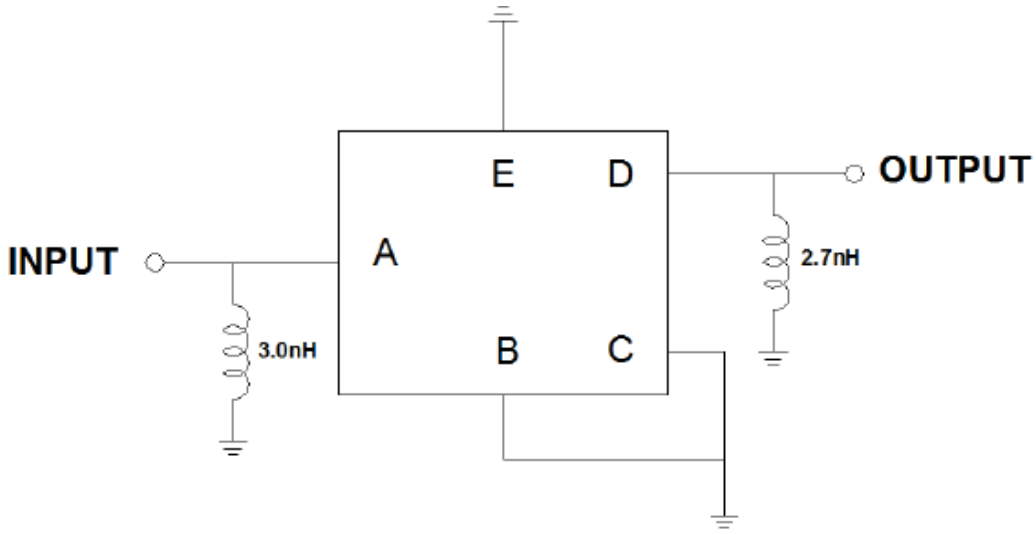
VSWR



Smith Chart

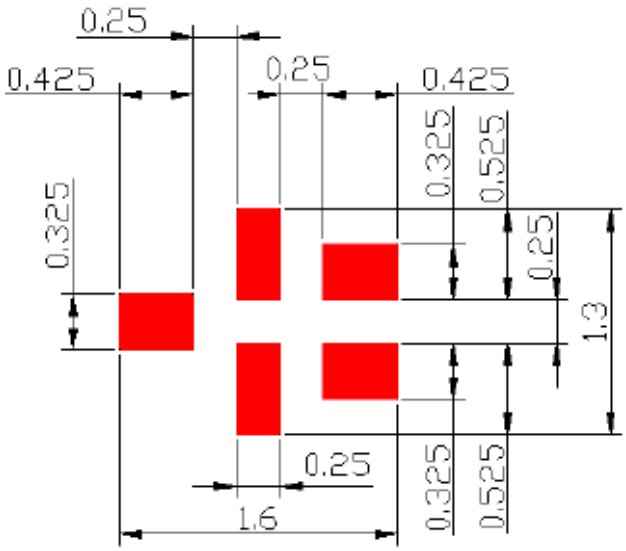


D. MEASUREMENT CIRCUIT:



Source & Load Impedance: 50 Ω

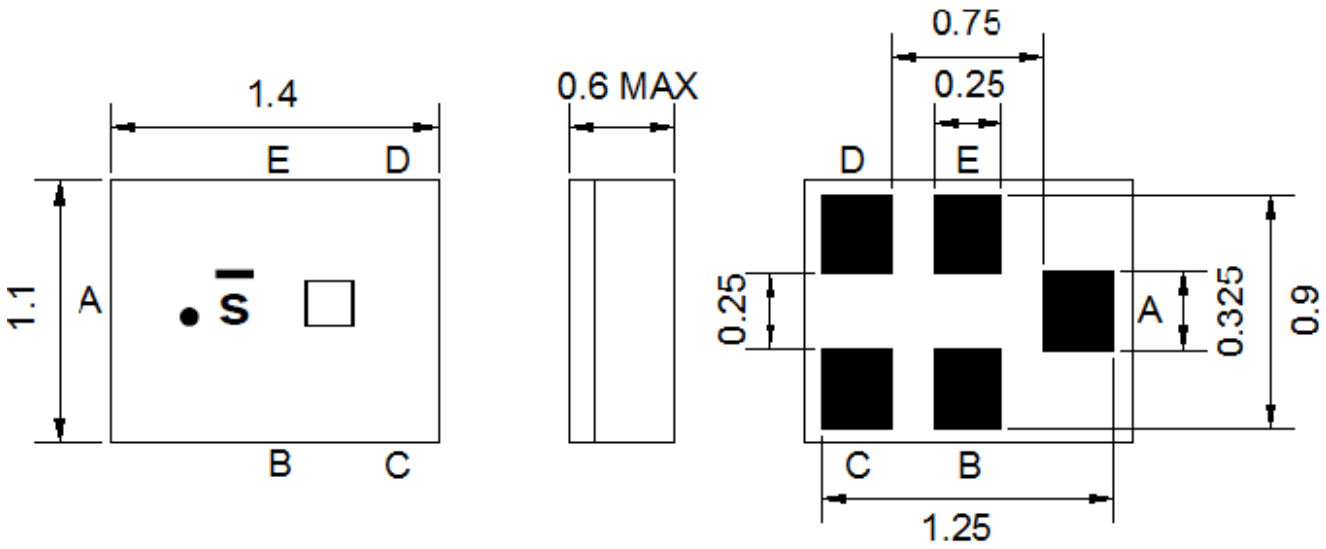
E. PCB Footprint:



: Land Pattern

Unit : mm

F. <u>OUTLINE DRAWING</u>:



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

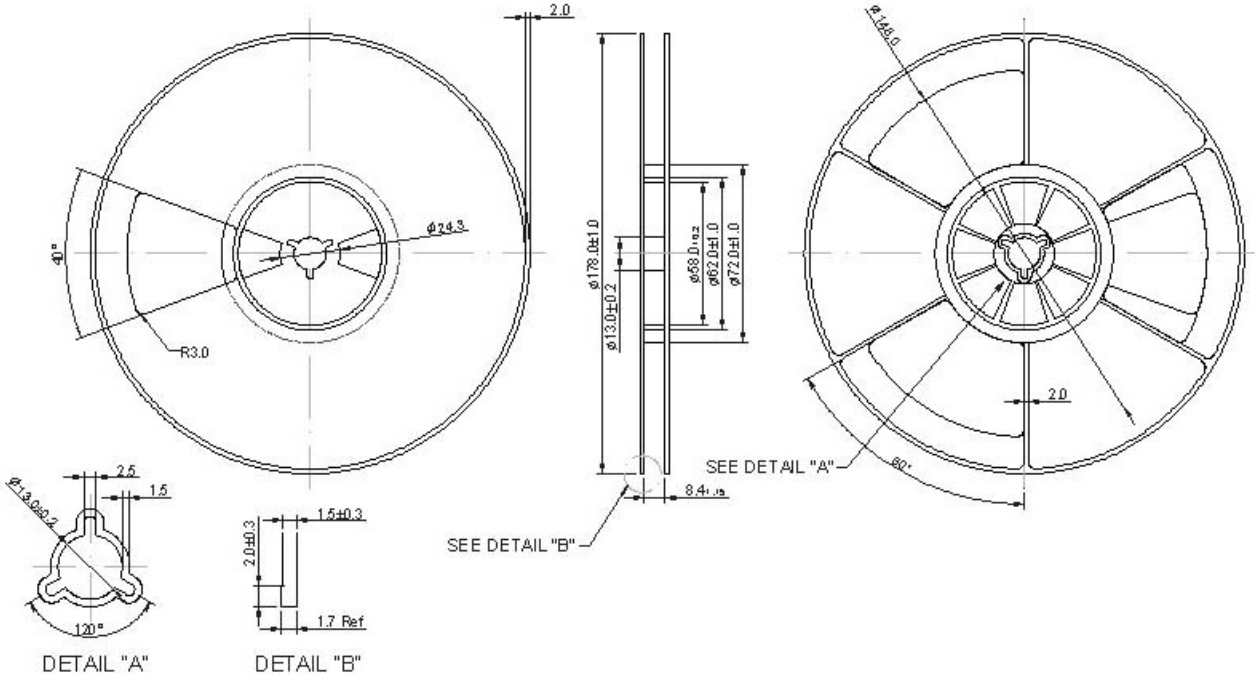
☐ **: Year/Month Code (Fallow the table)**

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	**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**

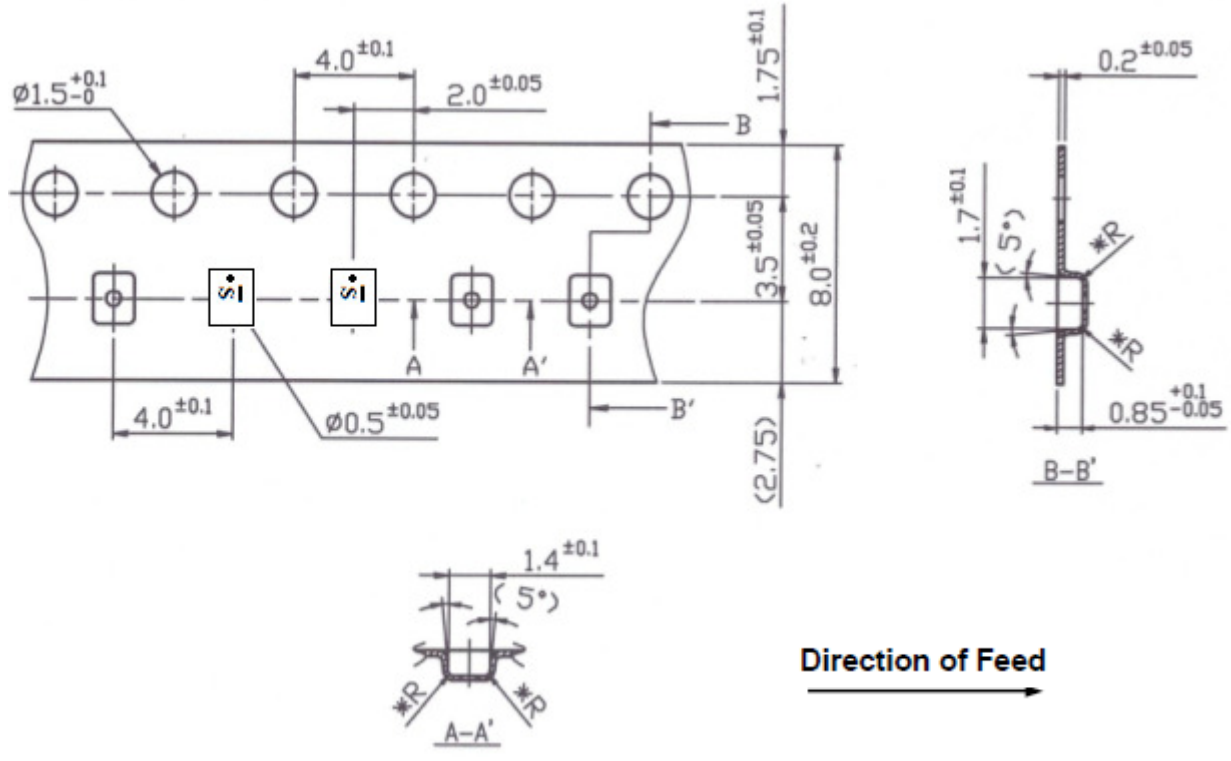
G. <u>PACKING</u>: (Ref: WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. <u>Recommended Reflow Profile:</u>

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.