



# 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 1815 MHz (BW 50 MHz) SMD 3.0X3.0 mm

TST Parts No.: TA2561A

Customer Parts No.: \_\_\_\_\_

|                     |
|---------------------|
| Company: _____      |
| Division: _____     |
| Approved by : _____ |
| Date: _____         |

Checked by: \_\_\_\_\_ Sam Lin *Sam Lin*

Approval by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 2019/05/22

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 1815 MHz (BW 50 MHz) SMD 3.0X3.0 mm

MODEL NO.:TA2561A

REV. NO.:1.0

### A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0 V
3. Operating Temperature: -45°C to +85°C
4. Storage Temperature: -45°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device (ESD)

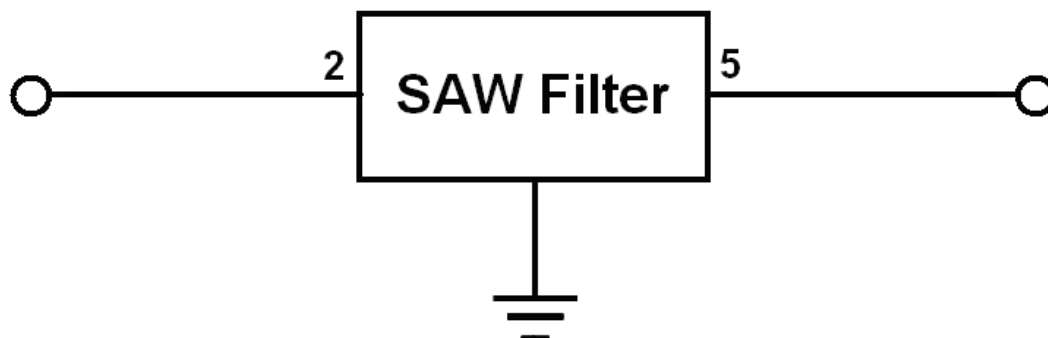
### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) :  $Z_s = 50 \Omega$

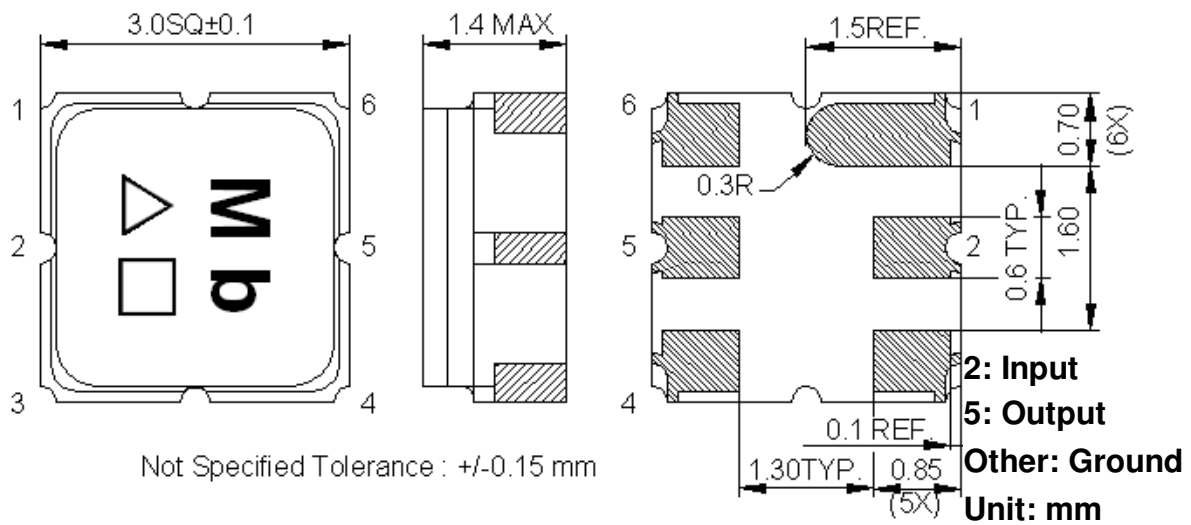
Terminating load impedance(single) :  $Z_L = 50 \Omega$

| Item                                 | Unit  | Min | Typ. | Max |
|--------------------------------------|-------|-----|------|-----|
| Center Frequency                     | MHz   | -   | 1815 | -   |
| Insertion Loss (1790~1840 MHz)       | dB    | -   | 2.7  | 3.5 |
| Insertion Loss (1780~1850 MHz)       | dB    | -   | 3.8  | 5.5 |
| Attenuation (Reference from 0 dB)    |       |     |      |     |
| 10 ~ 1750 MHz                        | dB    | 27  | 30   | -   |
| 1750 ~ 1770 MHz                      | dB    | 5   | 18   | -   |
| 1870 ~ 1930 MHz                      | dB    | 10  | 23   | -   |
| 1930 ~ 3000 MHz                      | dB    | 30  | 35   | -   |
| Temperature Coefficient of Frequency | ppm/K | -   | -36  | -   |

### C. TEST CIRCUIT:



# D. OUTLINE DRAWING:



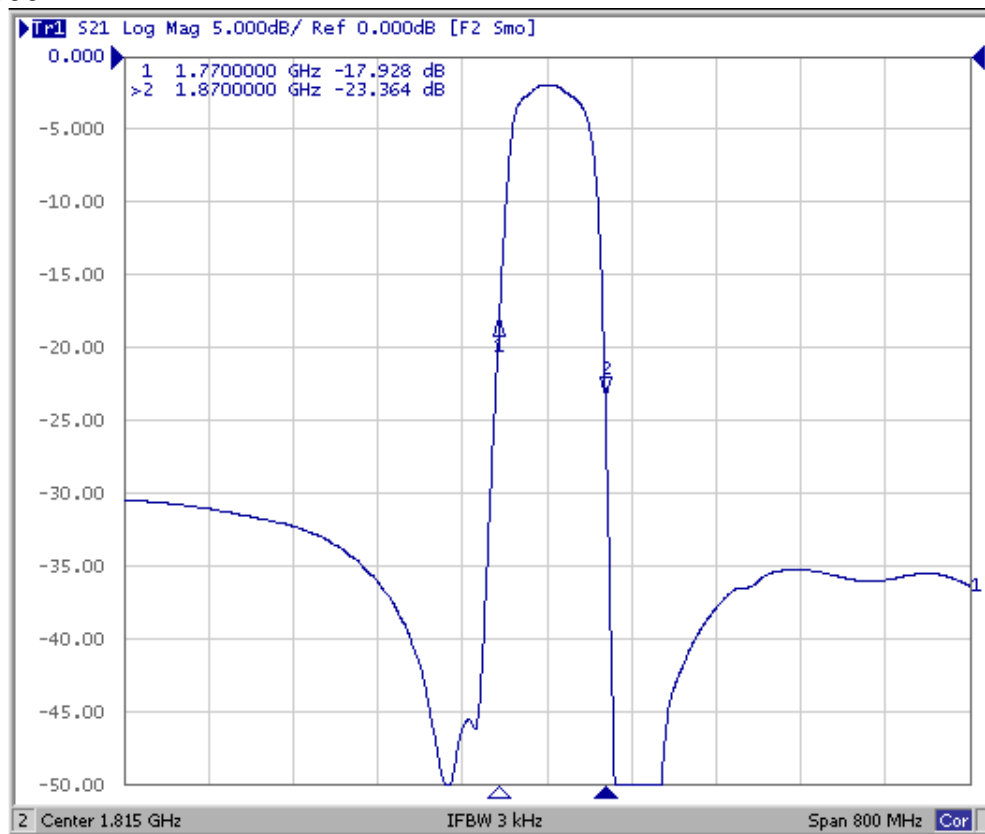
△ : Year Code (2009->9, 2010->0,..., 2018->8)

□ : Date Code (Follow the table from planner each year)

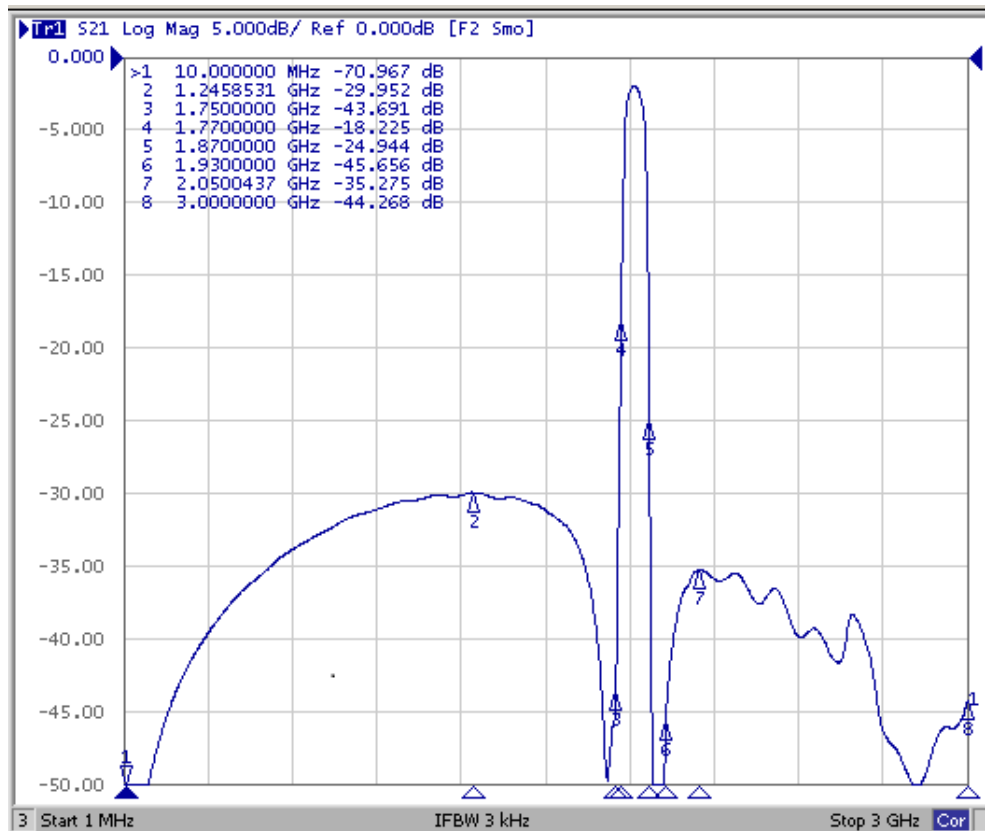
| WK01 | WK02 | WK03 | WK04 | WK05 | WK06 | WK07 | WK08 | WK09 | WK10 | WK11 | WK12 | WK13 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| A    | B    | C    | D    | E    | F    | G    | H    | I    | J    | K    | L    | M    |
| WK14 | WK15 | WK16 | 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. Frequency Characteristics:

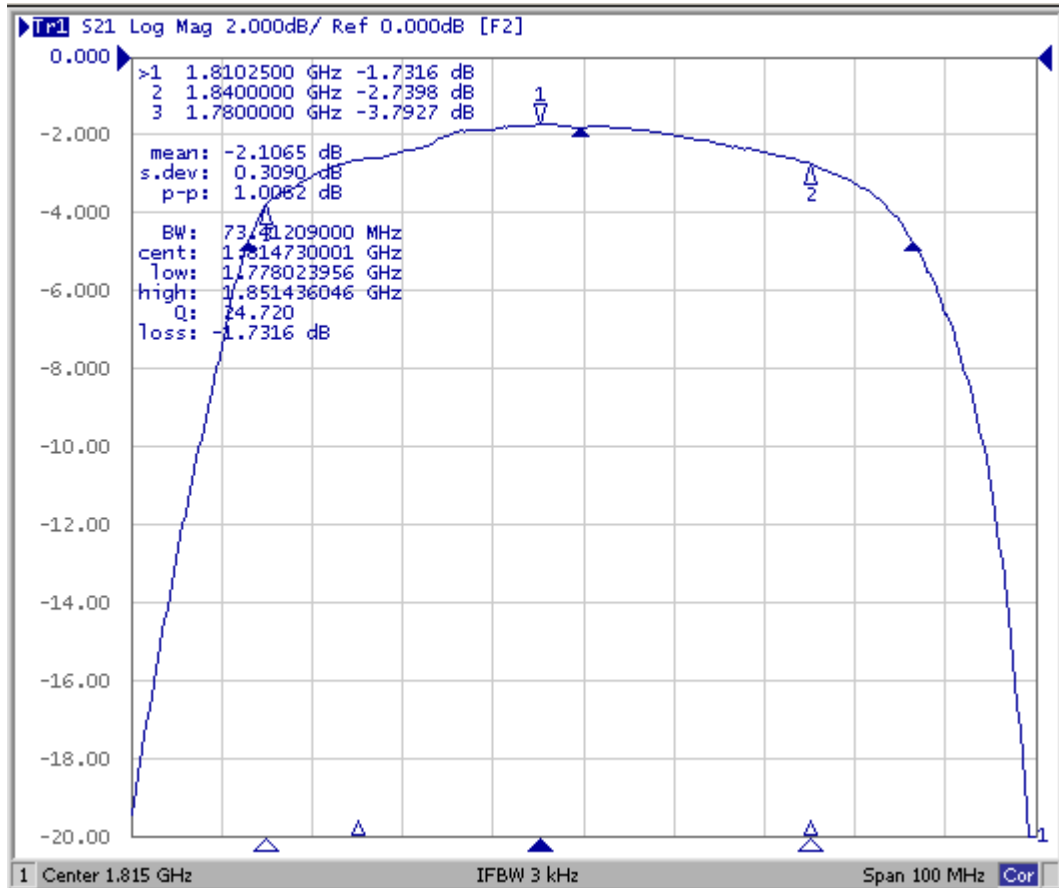
Span 800 MHz



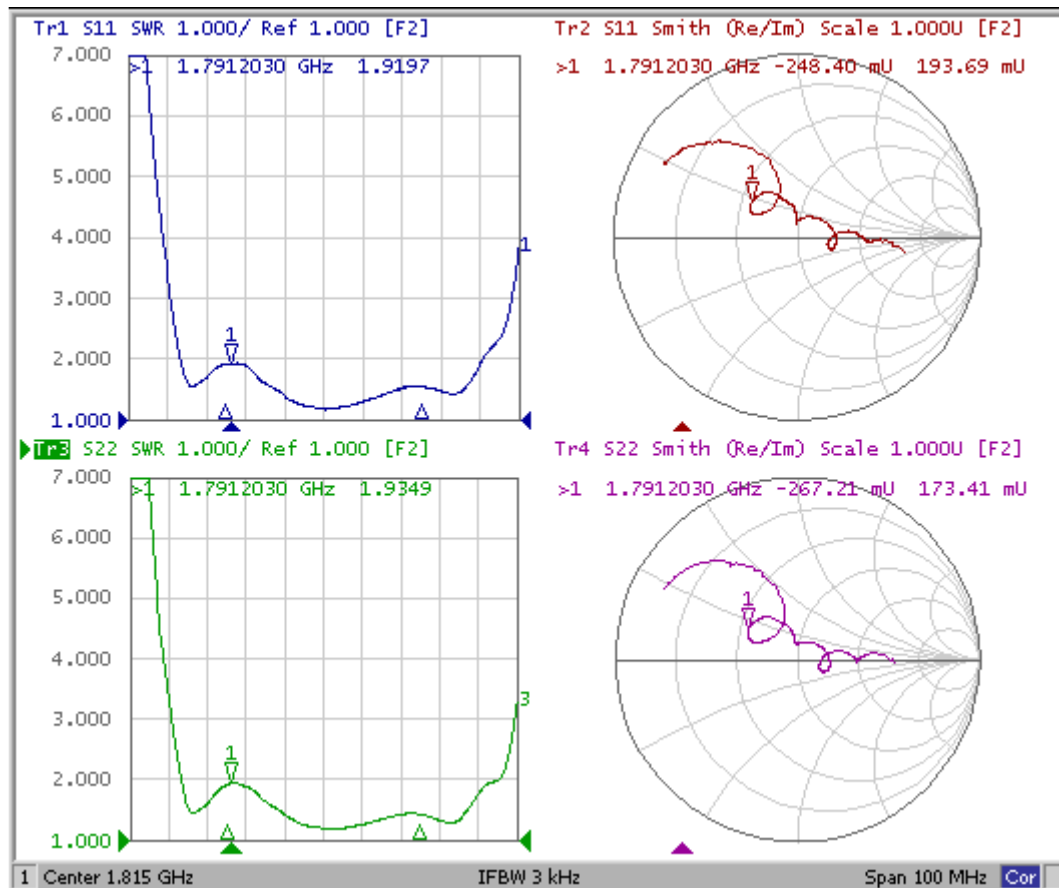
Span 3000 MHz



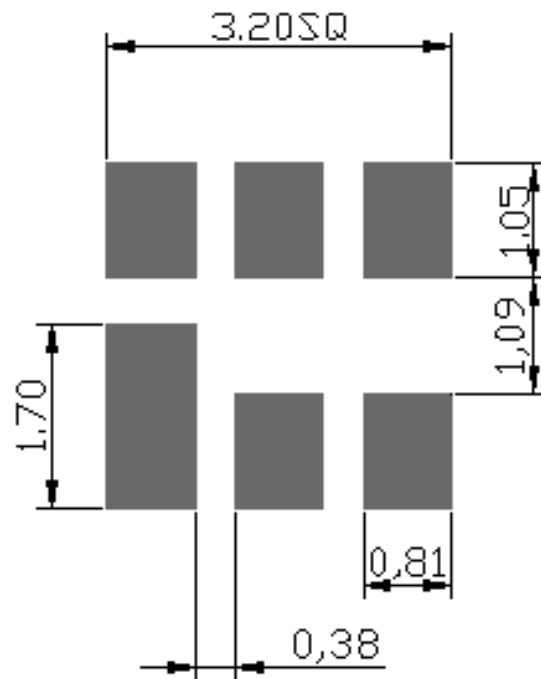
Span 100 MHz



Reflection Characteristic



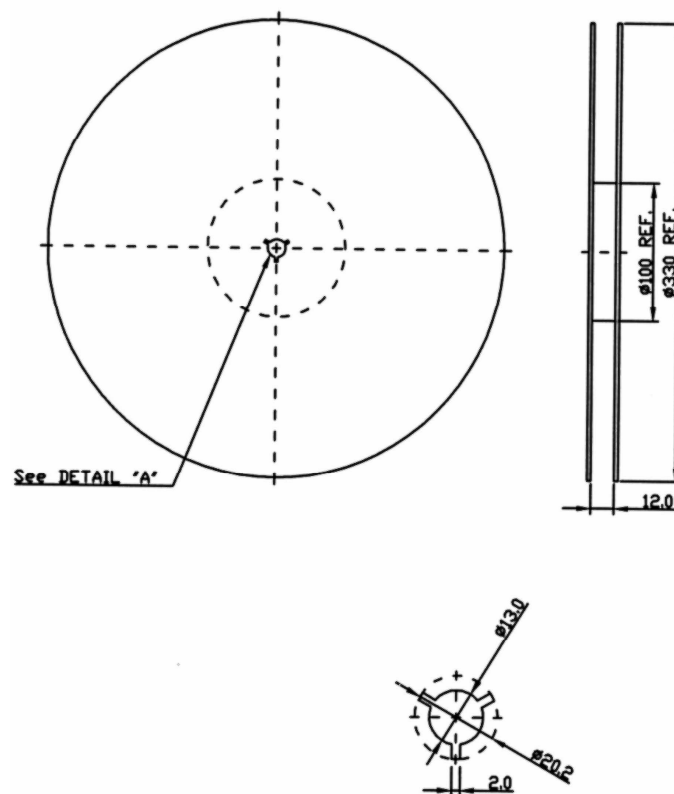
#### F. PCB FOOTPRINT:



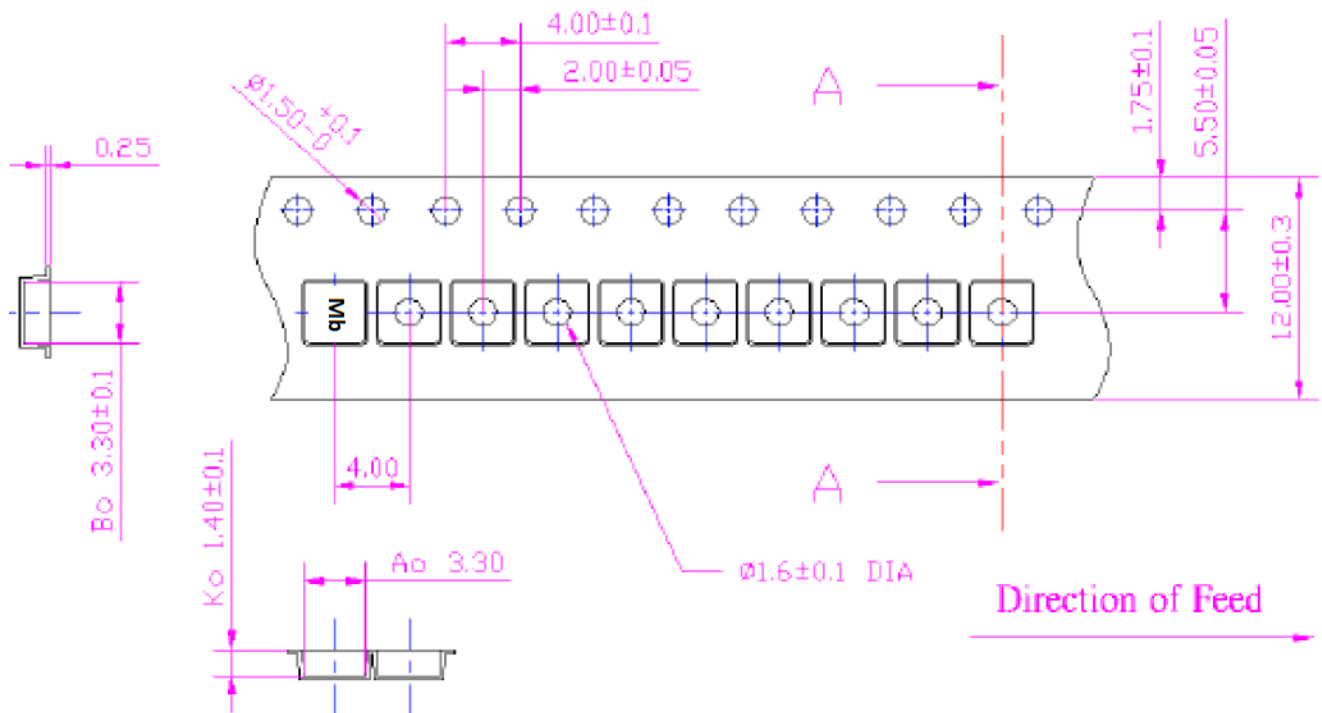
**G. PACKING:**

## 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°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.

