



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 1575.42 MHz SMD 2.0X1.6 mm

TST Part No.: TA0587A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Francis Chen 

Date: _____ 4, 27, 2012

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 1575.42 MHz for GPS

MODEL NO.: TA0587A

REV. NO.:6

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m (1574.42 ~ 1576.42 MHz)
2. Input Power Level: 10 dB_m (D.C. ~ 1500 MHz and 1625 ~ 3000MHz)
3. DC voltage: 7.5 V
4. Operating Temperature: -40°C to +85°C
5. Storage Temperature: -40°C to +95°C

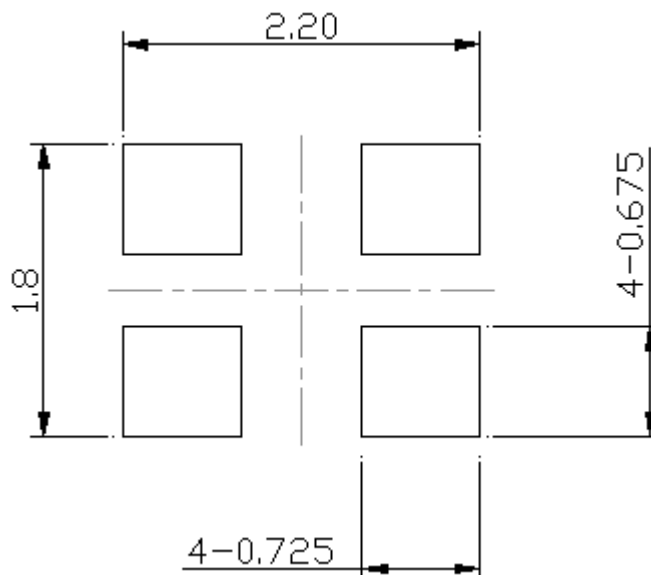
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

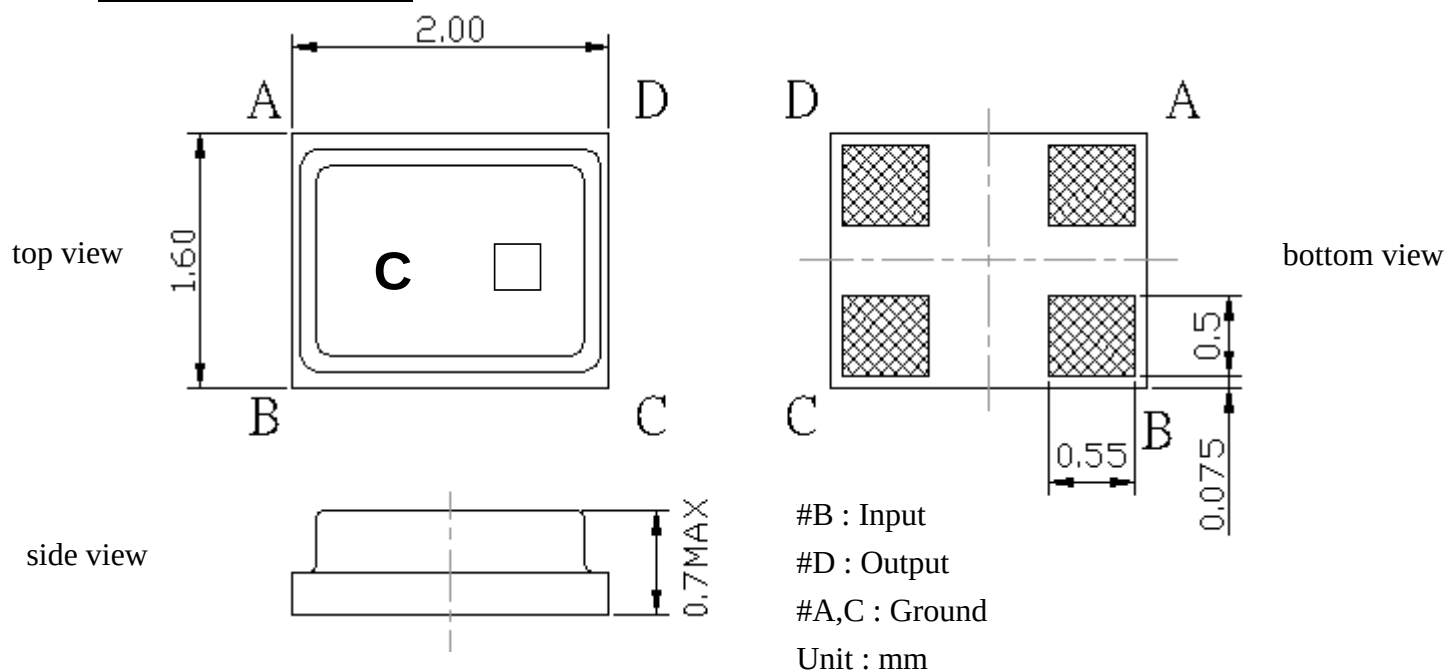
B. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
Center frequency	Fc (MHz)	-	1575.42	-
Insertion loss (1574.42~1576.42 MHz)	IL (dB)	-	1.2	1.6
Amplitude ripple (1574.42~1576.42 MHz)	(dB)	-	0.1	0.8
Bandwidth @ -2dB	(MHz)	-	37	-
Attenuation (Reference level from 0 dB)				
D.C. ~ 1000 MHz	(dB)	20	23	-
1500 MHz	(dB)	35	48	-
1625 ~ 1635 MHz	(dB)	30	48	-
1800 ~ 3000 MHz	(dB)	25	28	-
VSWR (1574.42~1576.42 MHz)		-	1.2	1.8
Source impedance	Zs (Ω)	-	50	-
Load impedance	ZL (Ω)	-	50	-

C. PCB Footprint:



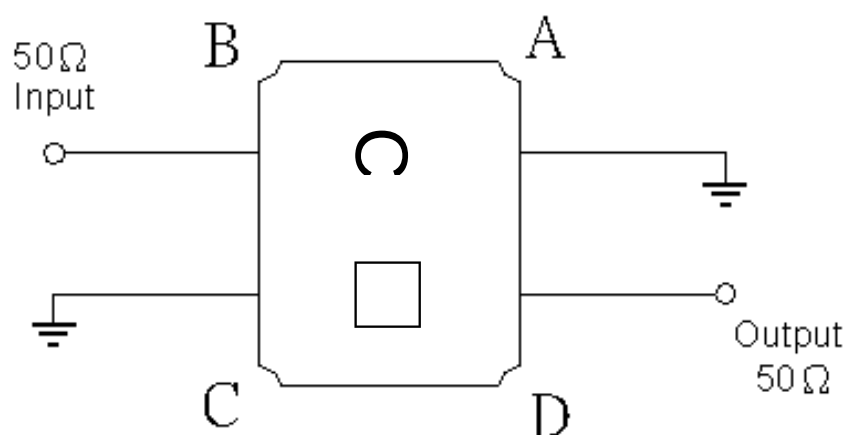
D. OUTLINE DRAWING:



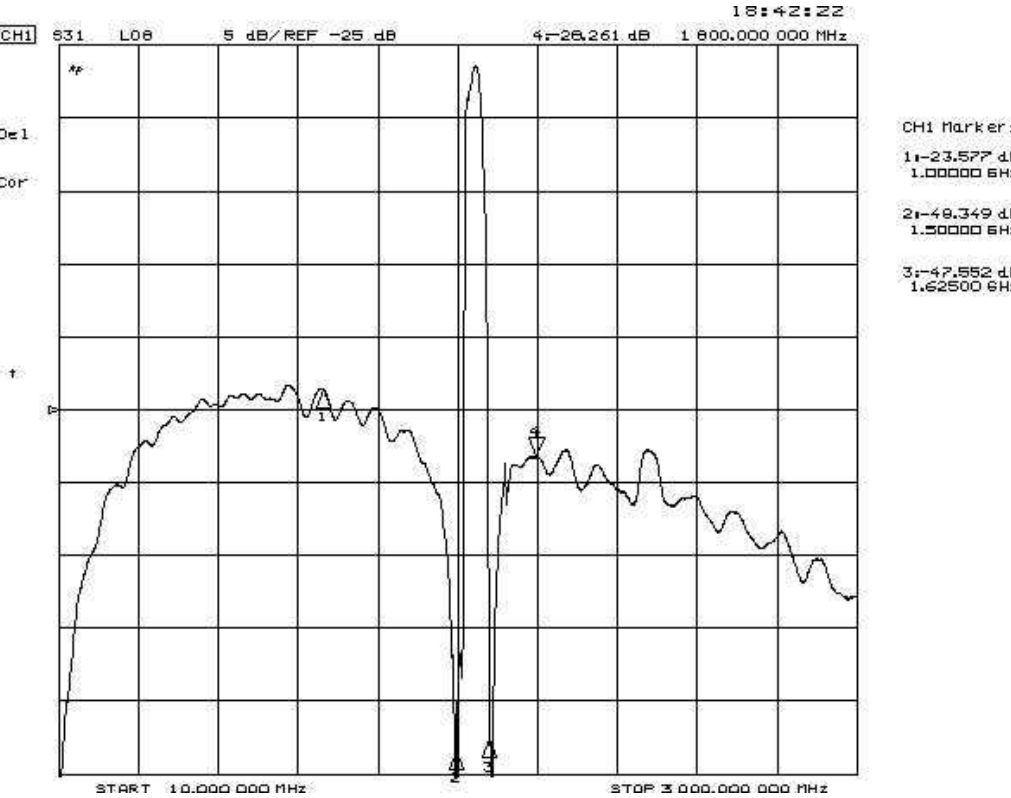
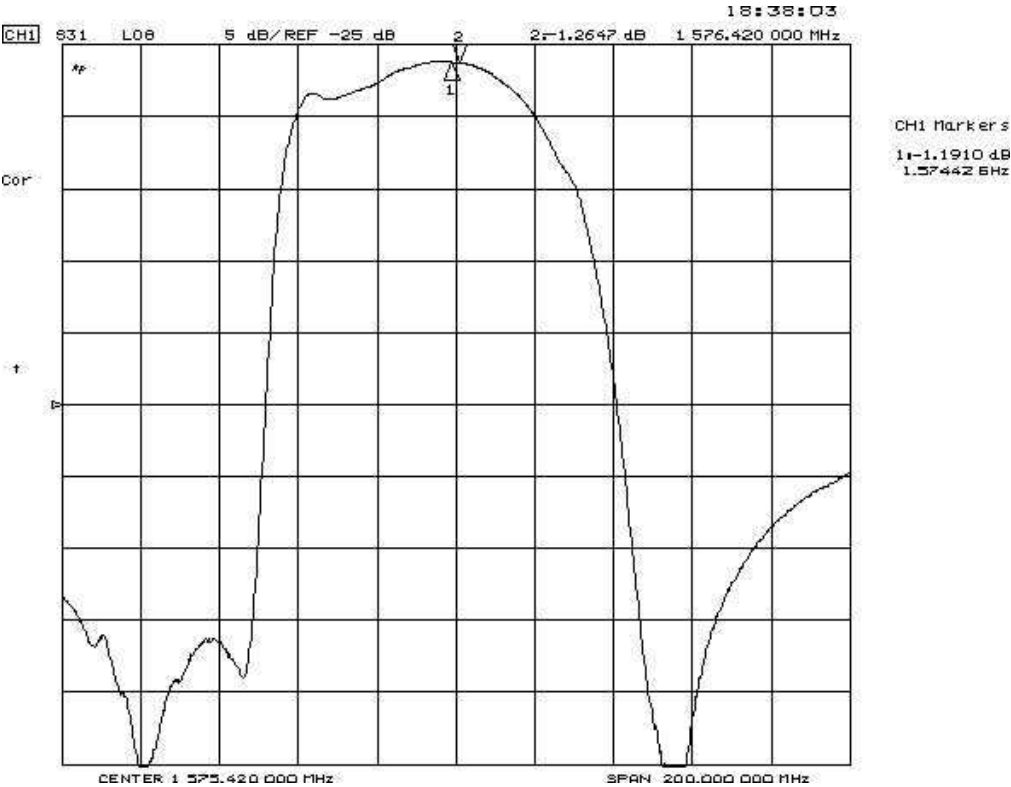
□ : Year/Month Code (Follow the table)

Year/Month	1	2	3	4	5	6	7	8	9	10	11	12
2006	A	B	C	D	E	F	G	H	J	K	L	M
2007	N	P	Q	R	S	T	U	V	W	X	Y	Z
2008	a	b	c	d	e	f	g	h	j	k	i	m
2009	n	p	q	r	s	t	u	v	w	x	y	z
2010	A	B	C	D	E	F	G	H	J	K	L	M
2011	N	P	Q	R	S	T	U	V	W	X	Y	Z

E. MEASUREMENT CIRCUIT:

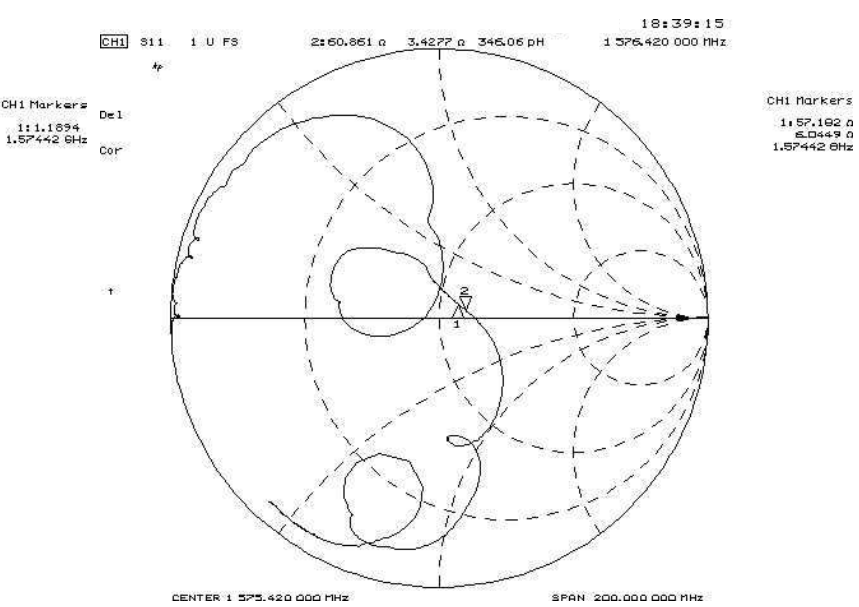
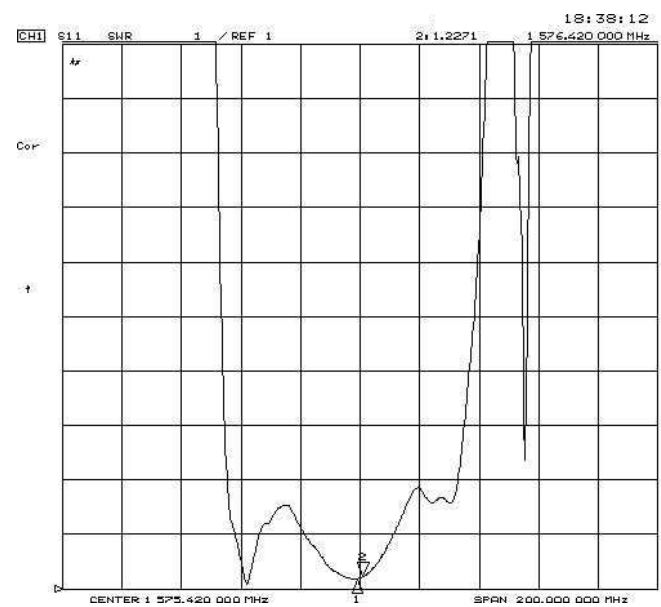


F. Frequency Characteristics : Transfer function

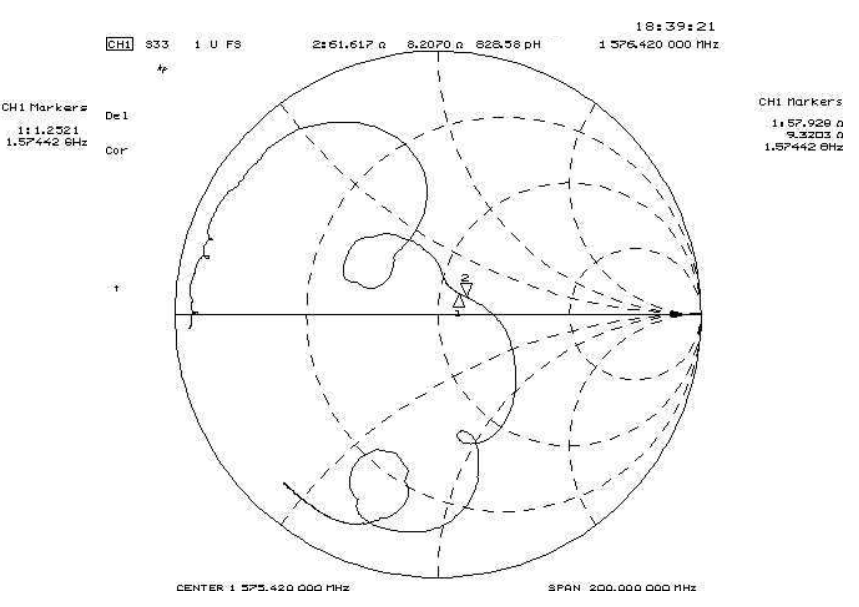
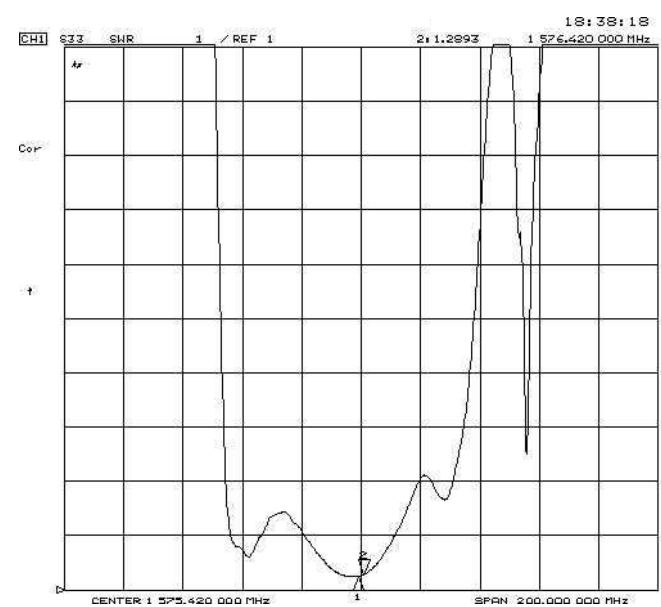


Reflections Functions :

S11 VSWR



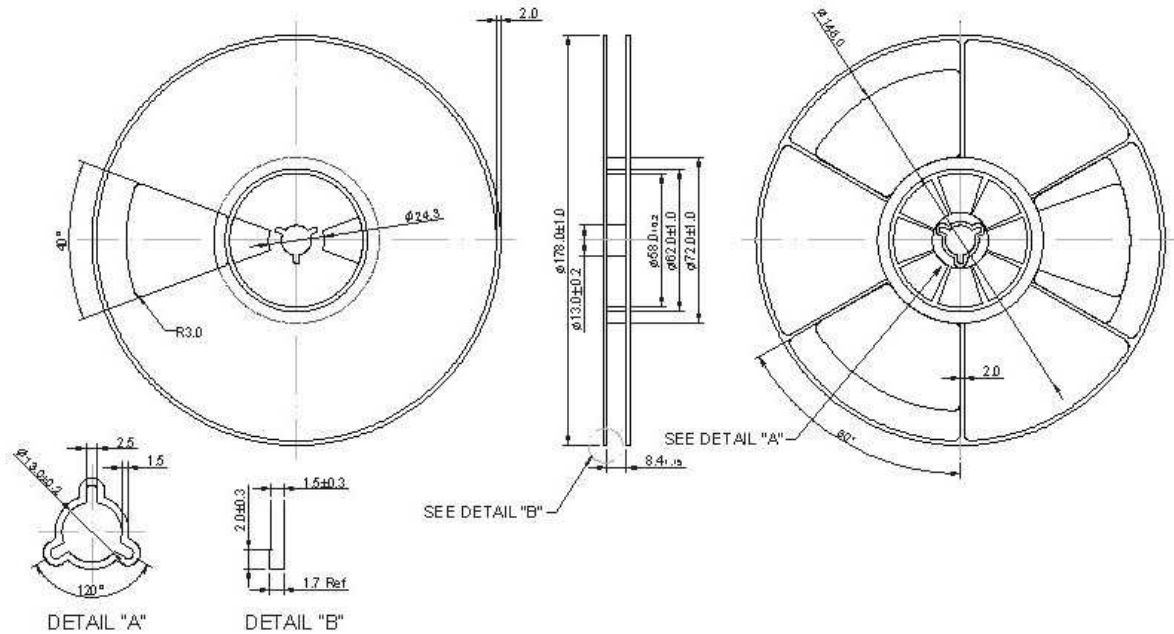
S22 VSWR



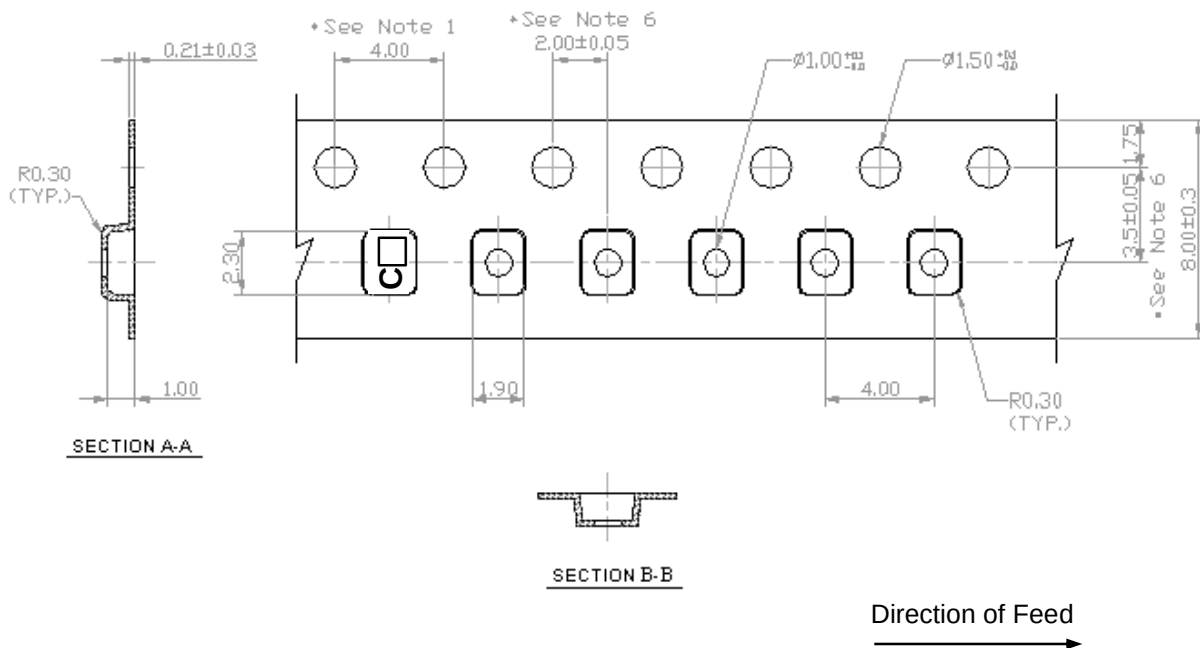
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7''=3000 typ. Or per the request of customer order)



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 245~260°C peak (min. 10sec).
4. Time : 2 times.

