

SF2565LA

**788 MHz
SAW Filter**



SM1109

MAXIMUM RATING

- Input Power Level: 15 dBm
- DC Voltage : 0 V
- Operating Temperature: -30 °C to +85 °C
- Storage Temperature: -40 °C to +85 °C
- Moisture Sensitive Level: Level 1 (MSL1)
- ESD: 100 V(MM), 200 V(HBM)
- AEC-Q200 Qualified

ELECTRICAL CHARACTERISTICS

Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

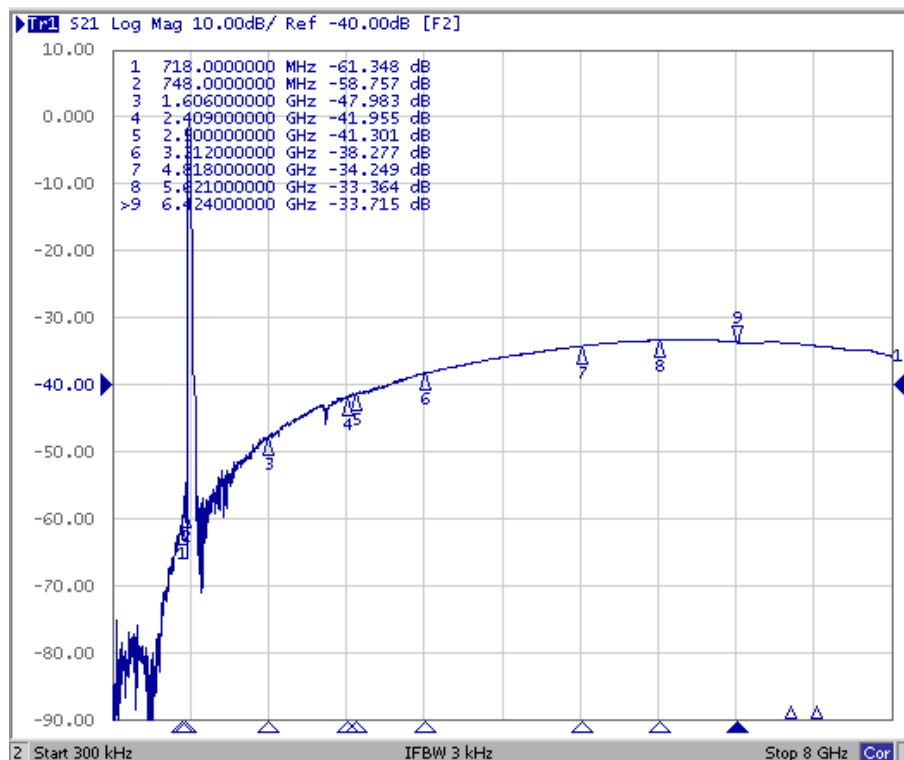
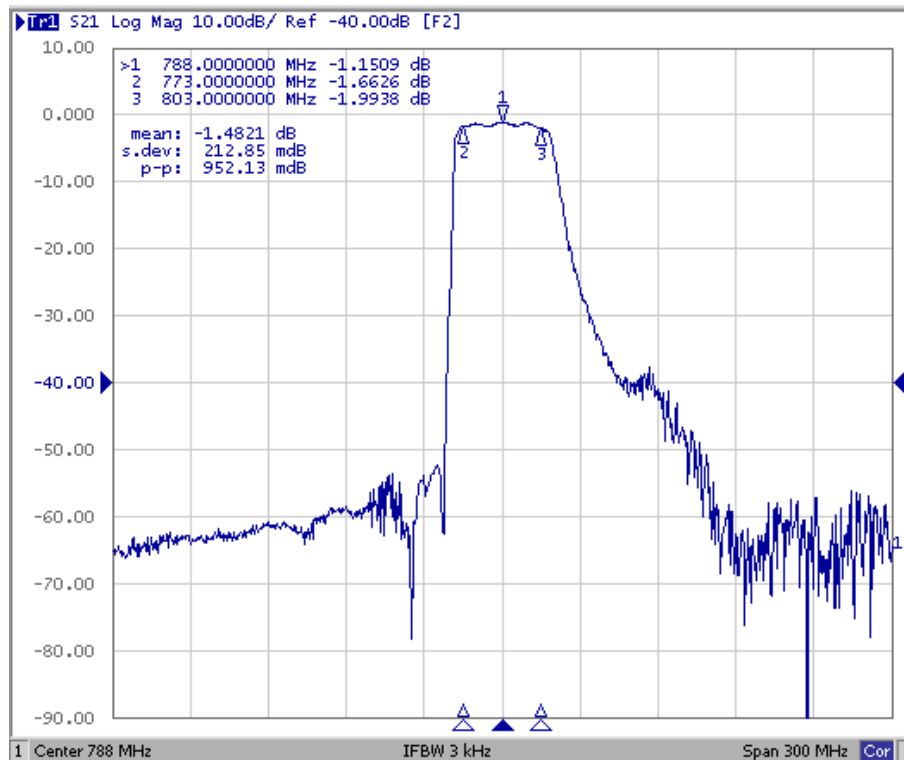
Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	788	-
Insertion Loss (773~803 MHz) IL	dB	-	2.0	2.8
Amplitude Ripple (773~803 MHz)	dBp-p	-	1.0	2.1
VSWR (773~803 MHz)	-	-	2.2	2.5
Attenuation (Reference level from 0 dB)				
703 ~ 718 MHz	dB	46	60	-
718 ~ 748 MHz	dB	46	52	-
1546 ~ 1606 MHz	dB	40	49	-
1559 ~ 1606 MHz	dB	40	49	-
2319 ~ 2409 MHz	dB	35	43	-
2400 ~ 2500 MHz	dB	35	43	-
3092 ~ 3212 MHz	dB	30	41	-
3865 ~ 4015 MHz	dB	30	39	-
4638 ~ 4818 MHz	dB	30	38	-
4900 ~ 5950 MHz	dB	30	38	-
5411 ~ 5621 MHz	dB	30	38	-
6184 ~ 6424 MHz	dB	30	39	-
6957 ~ 7227 MHz	dB	30	38	-

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.



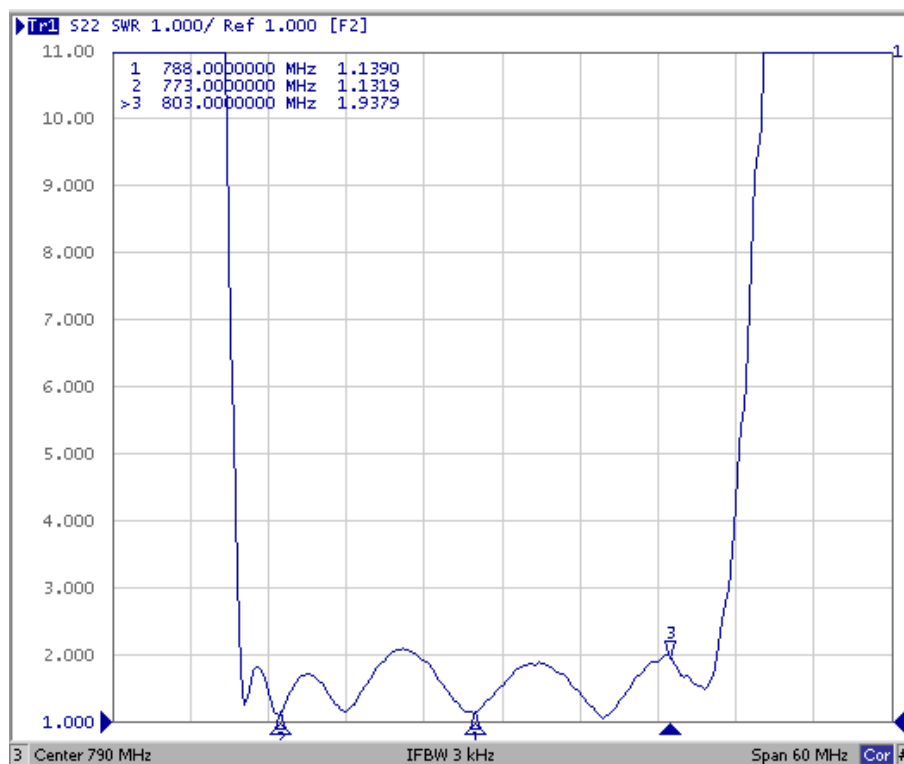
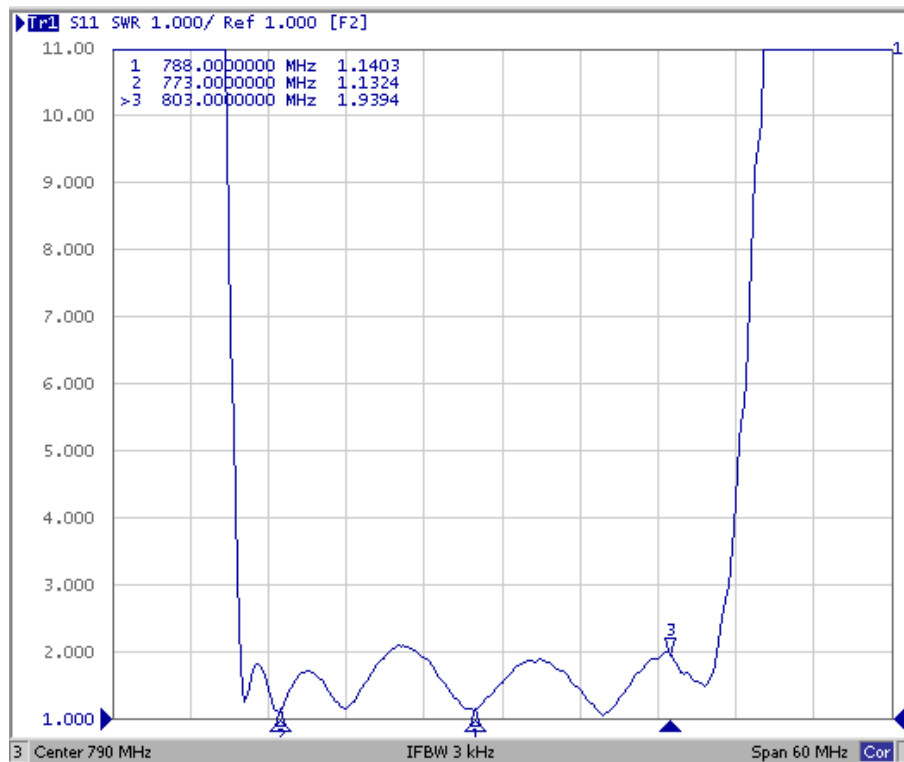
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

FREQUENCY CHARACTERISTICS

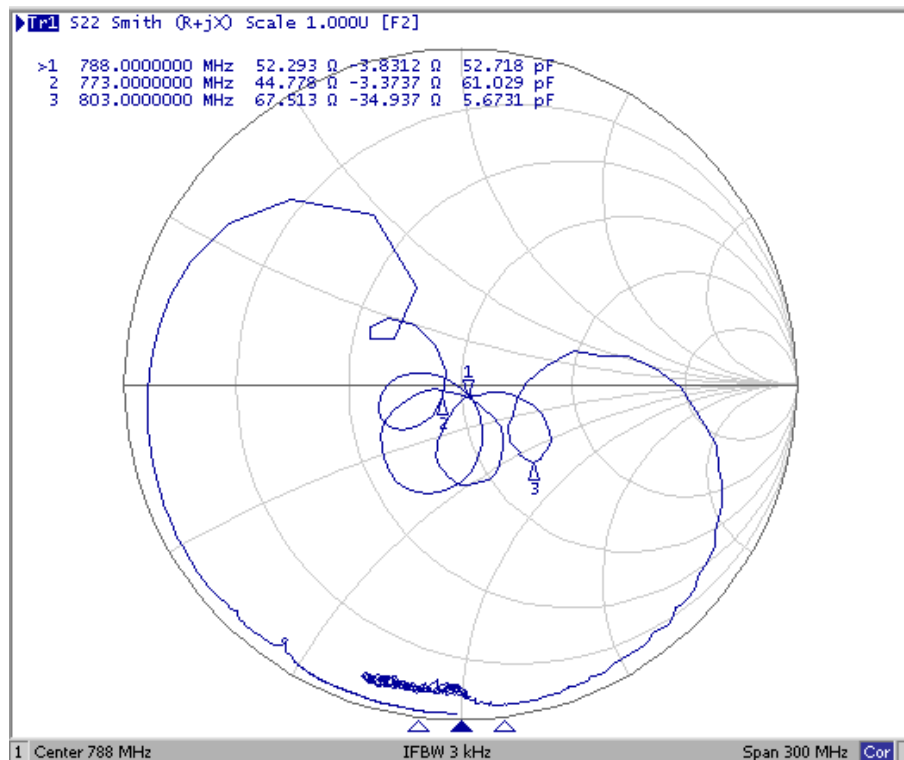
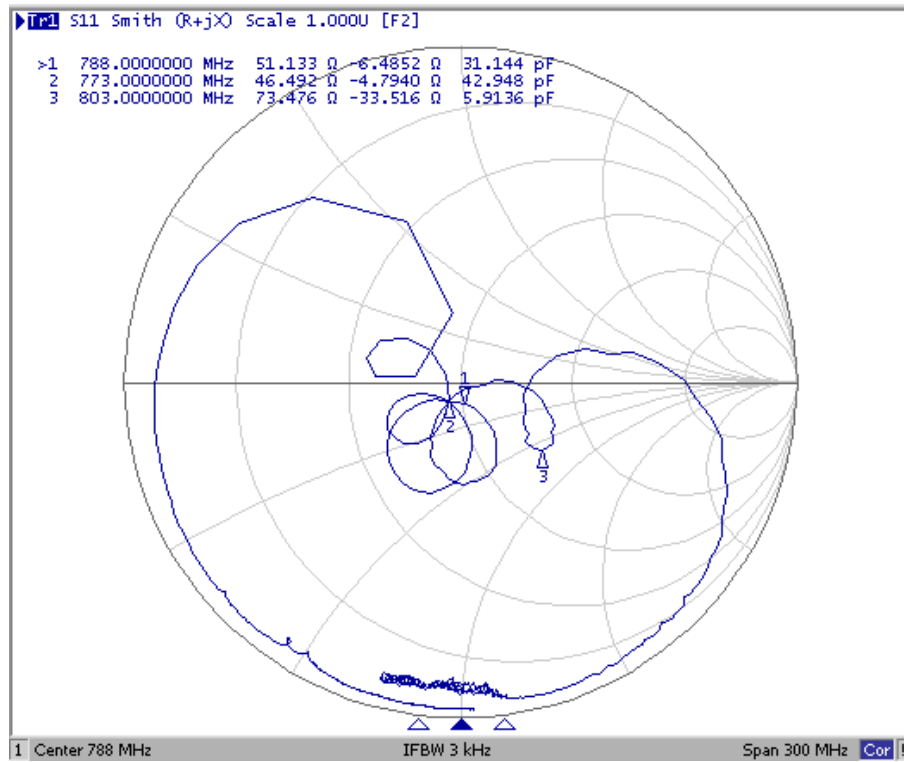


Reflection Functions:

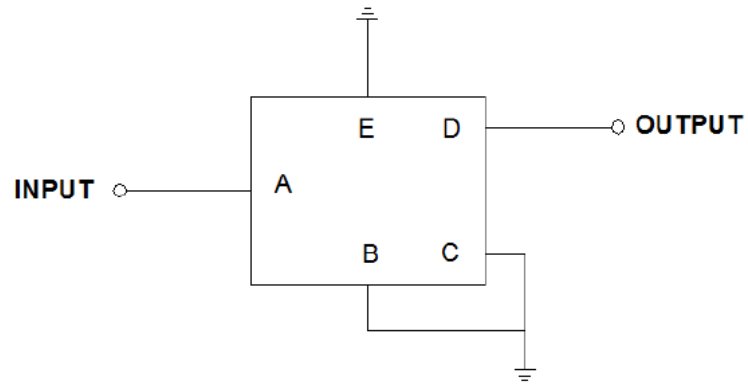
VSWR



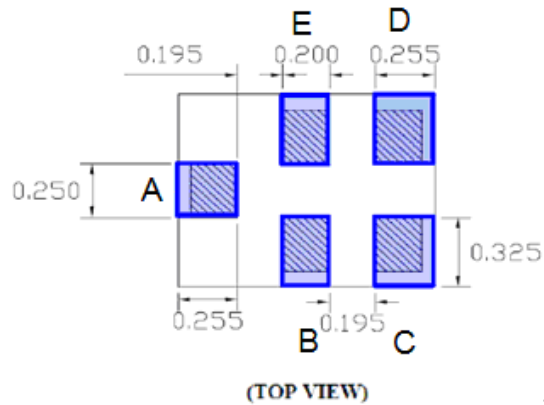
Smith Chart



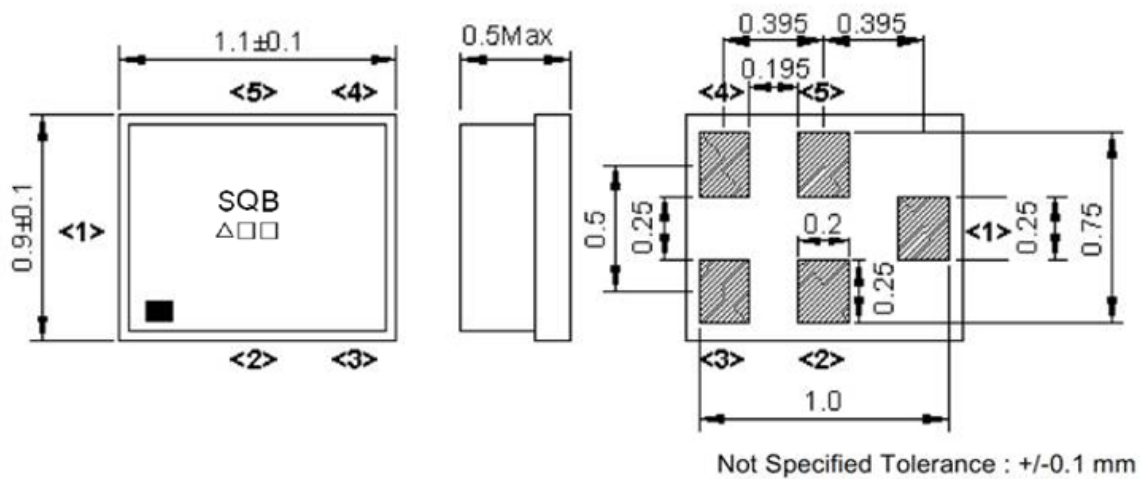
MEASUREMENT CIRCUIT



PCB Footprint



OUTLINE DRAWING



Pin Configuration

Pin No.	Symbol	Function
A	IN	Unbalanced pin
B	GND	Ground
C	GND	Ground
D	OUT	Unbalanced pin
E	GND	Ground

△ : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

Date Code												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	A	N	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

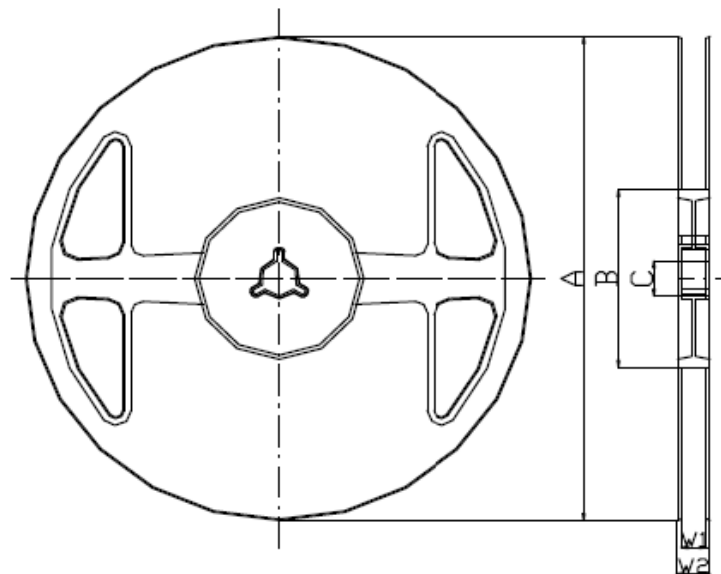
PACKING

REEL DIMENSION

Reel Count:

7" = 3000

13" = 10000



Materials of Reel

Material : Polystyrene + Carbon

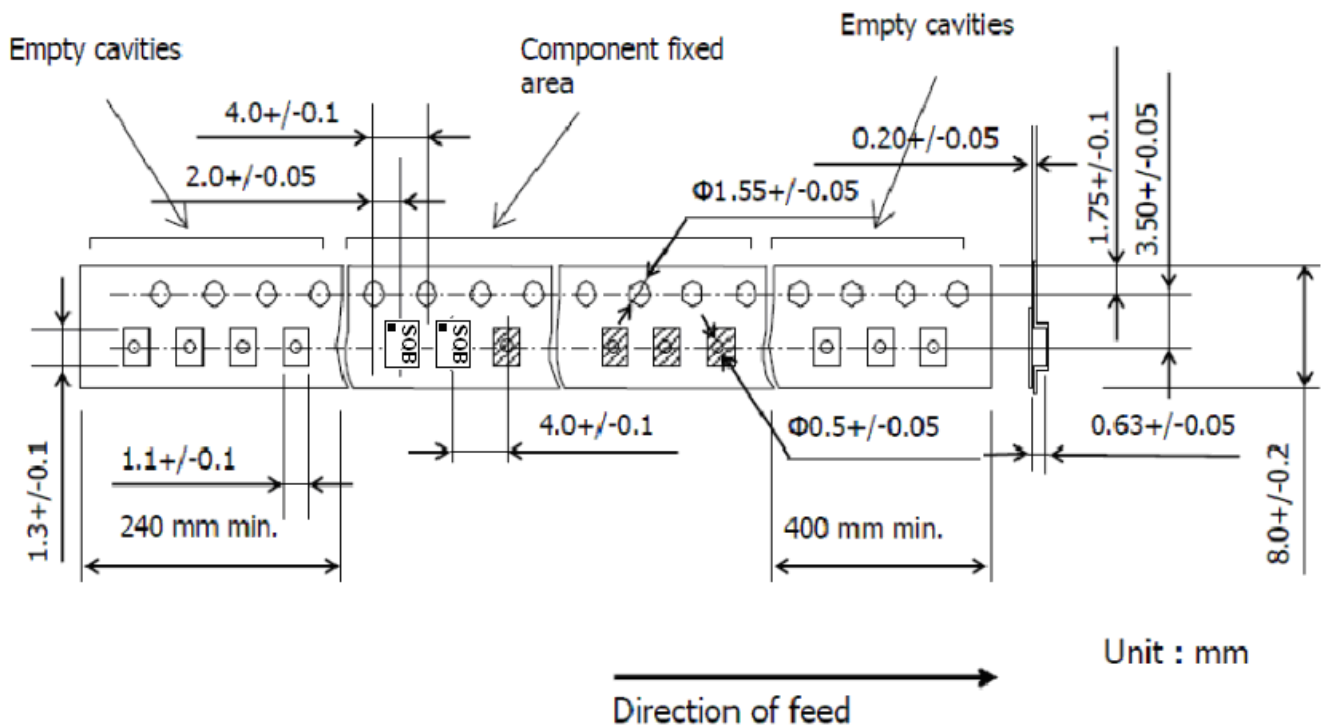
Color : Black

Surface resistance (reference value) : $10^9 \Omega/\text{sq}$ Max.

Unit : mm

A	B	C	W1	W2
$\phi 180.0 +0.0/-1.5$	$\phi 66.0 +/-0.5$	$\phi 13.0 +/-0.2$	$9.0 +1.0/-0.0$	$11.4 +/-1.0$

TAPE DIMENSION



Recommended Reflow Profile

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ 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 $260^\circ\text{C} \pm 0/-5^\circ\text{C}$ peak (20~40sec).
4. Time: 2 times.

