

**SF2570L**

**2595 MHz  
SAW Filter**



**SM1109**

## MAXIMUM RATING

- Input Power Level: 10dBm
- DC Voltage : 0V
- Operating Temperature: -30°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: Level 3
- ESD 50V(MM) 100V(HBM)

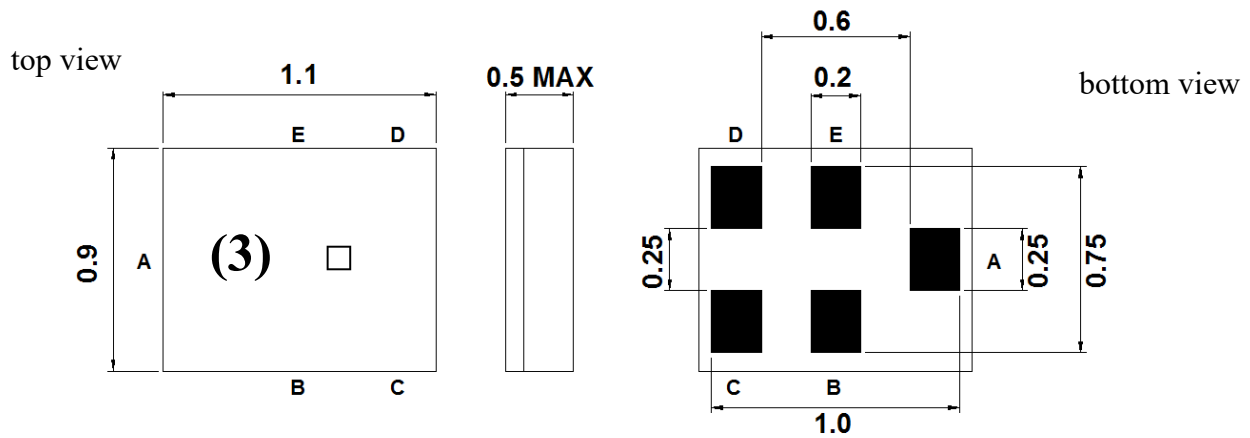
## ELECTRICAL CHARACTERISTICS

Terminating source impedance :  $Z_s = 50 \Omega$

Terminating load impedance :  $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.	Note
<b>Center Frequency</b> <b>F<sub>c</sub></b>	MHz	-	2595	-	-
<b>Insertion Loss</b> (2570~2620 MHz) <b>IL</b>	dB	-	1.6	2.5	-
<b>Amplitude ripple</b> (2570~2620 MHz)	dBp-p	-	0.7	1.7	-
<b>VSWR</b> (2570~2620 MHz)		-	1.8	2.2	-
<b>Attenuation</b> (reference level from 0 dB)					
10 ~ 200 MHz	dB	30	41	-	-
200 ~ 1570 MHz	dB	20	29		
1570 ~ 1580 MHz	dB	20	29		
1580 ~ 2000 MHz	dB	20	29	-	-
2000 ~ 2300 MHz	dB	20	31	-	-
2300 ~ 2400 MHz	dB	25	37	-	-
2400 ~ 2485 MHz	dB	25	30	-	-
2485 ~ 2510 MHz	dB	25	29	-	-
2510 ~ 2555 MHz	dB	1.0	2.8	-	-
2635 ~ 2680 MHz	dB	1.0	2.8		
2680 ~ 2705 MHz	dB	30	44		
2705 ~ 3000 MHz	dB	25	36		
3000 ~ 4000 MHz	dB	25	34		
4000 ~ 4900 MHz	dB	20	26		
4900 ~ 6000 MHz	dB	15	22		
<b>Temperature Coefficient of Frequency</b>	ppm/°C	-	-36	-	-

## OUTLINE DRAWING



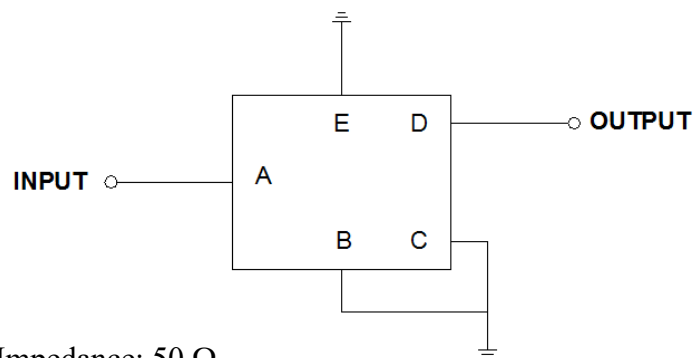
Marking Descriptions	
(3)	Series Number
□	Date Code(Year+Month)

□ : Year/Month Code (Follow the table)

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

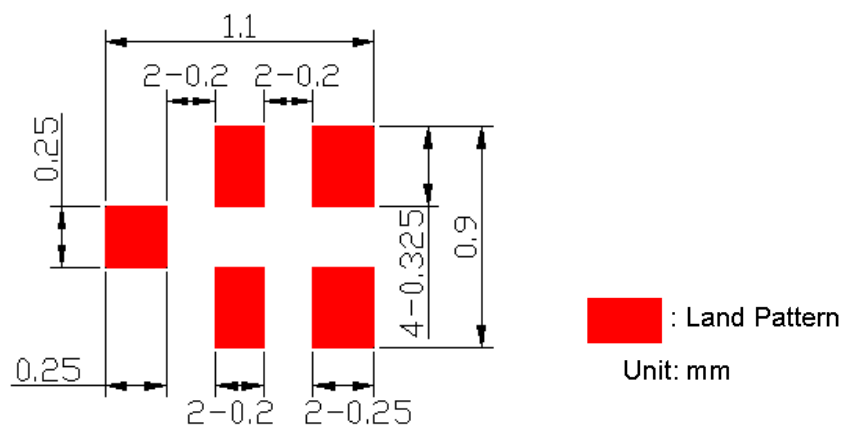
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

## MEASUREMENT CIRCUIT



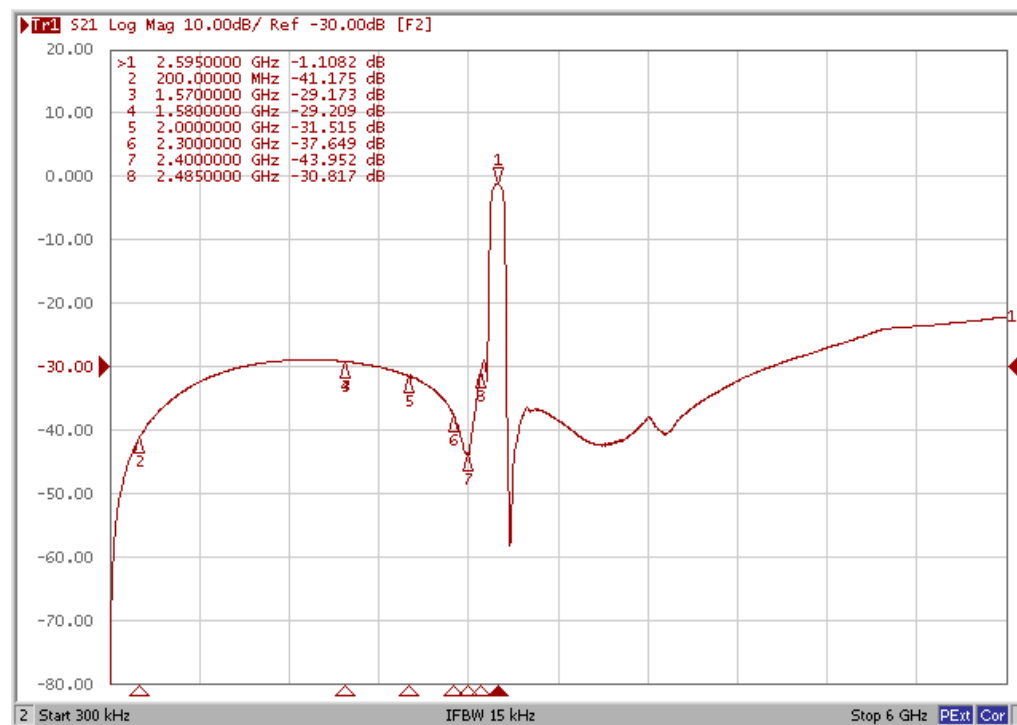
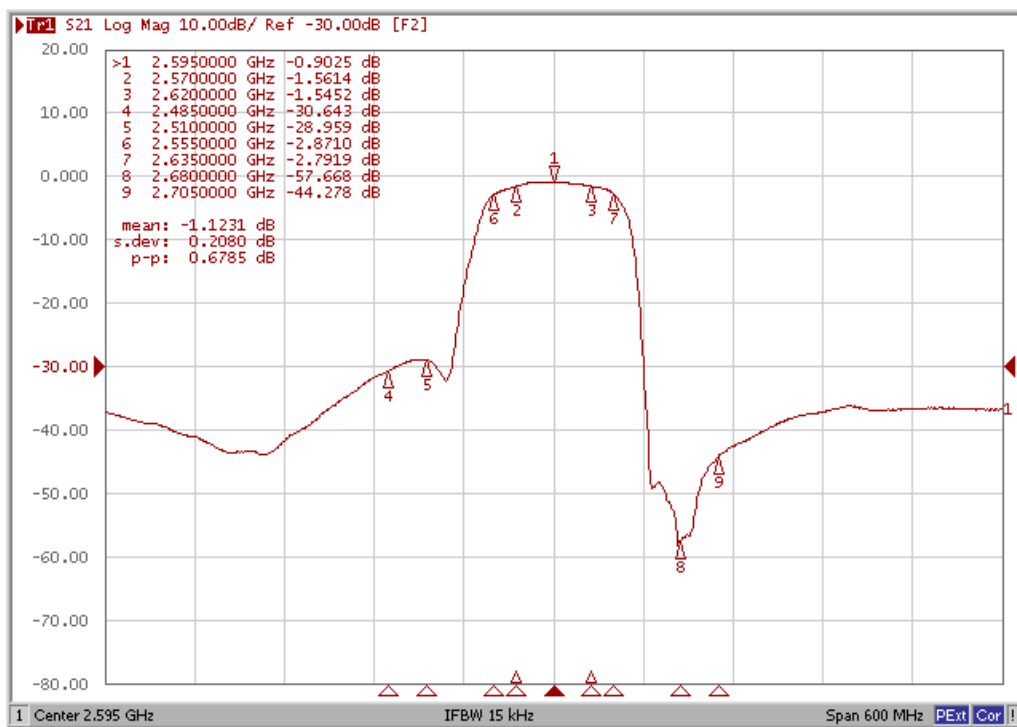
Source & Load Impedance: 50 Ω

## PCB Footprint



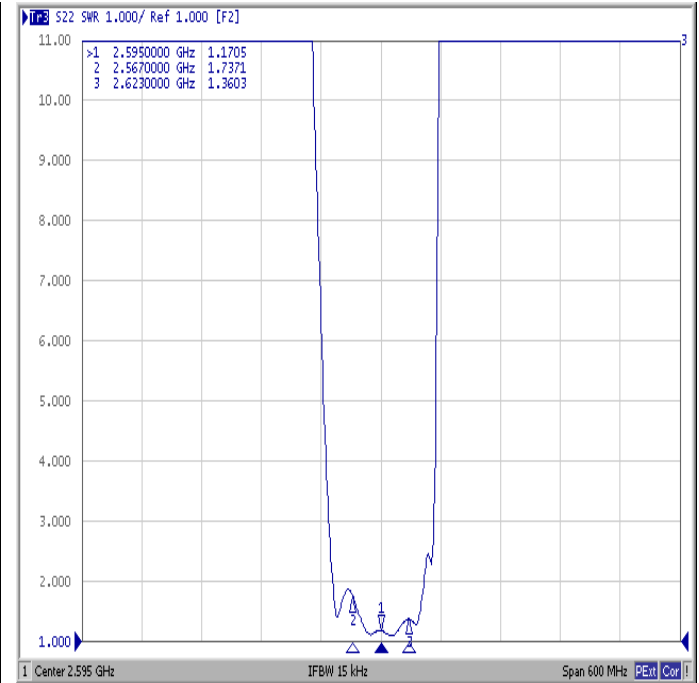
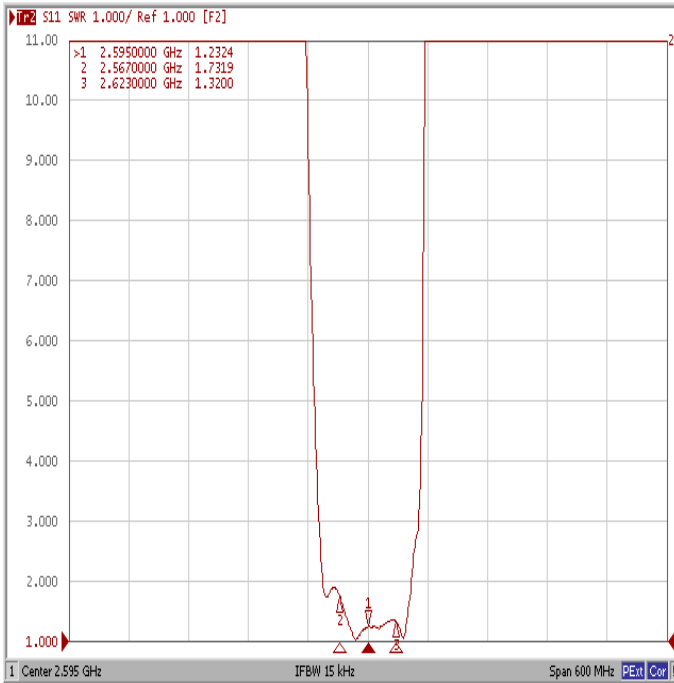
## Frequency Characteristics

### Frequency Response

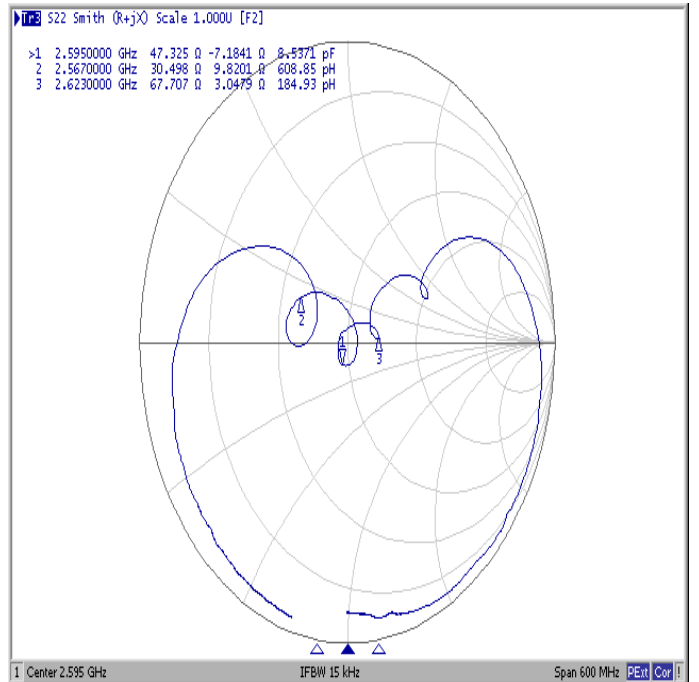
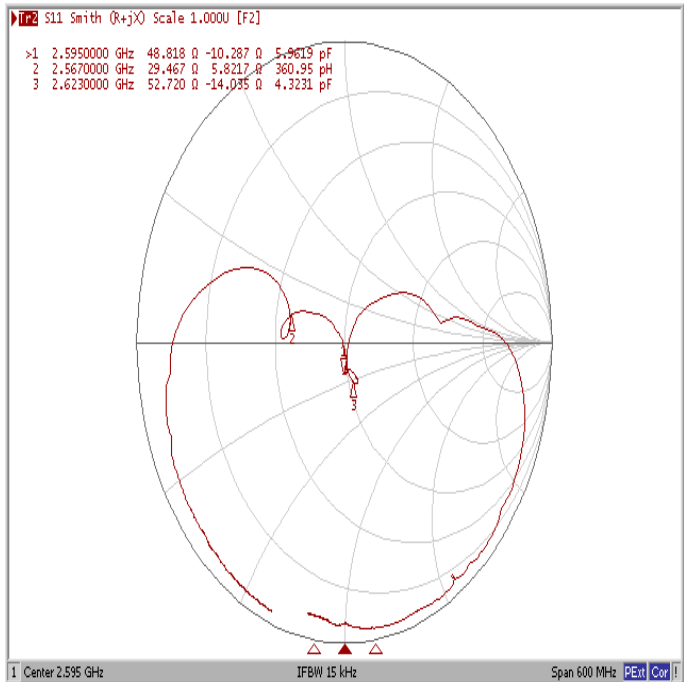


## Reflection Functions

## VSWR

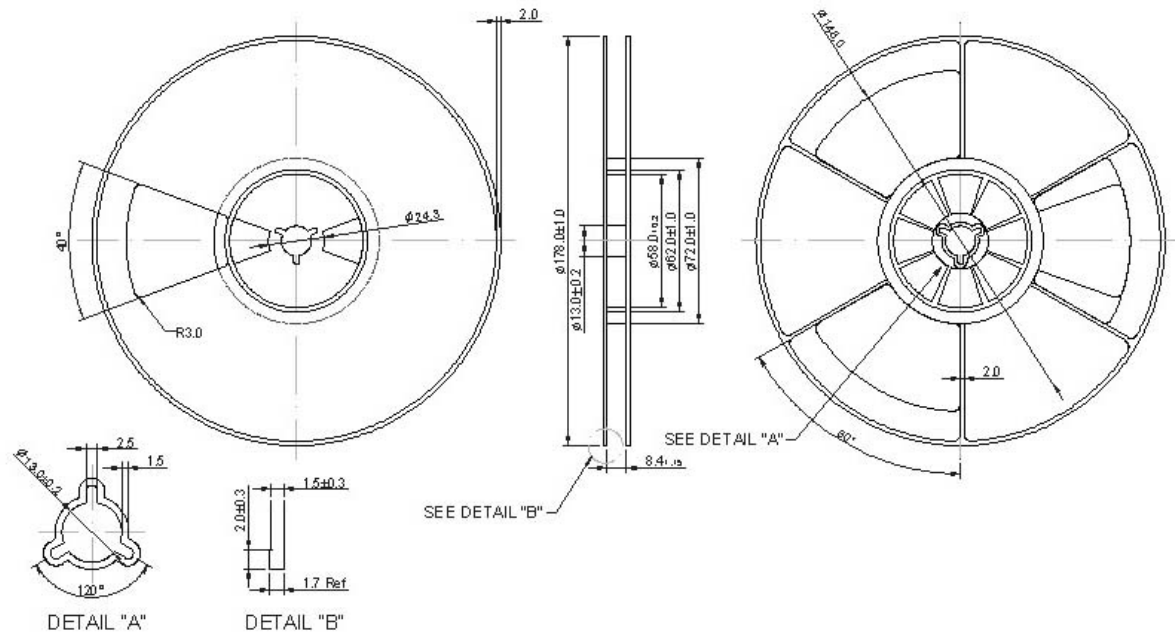


## Smith Chart

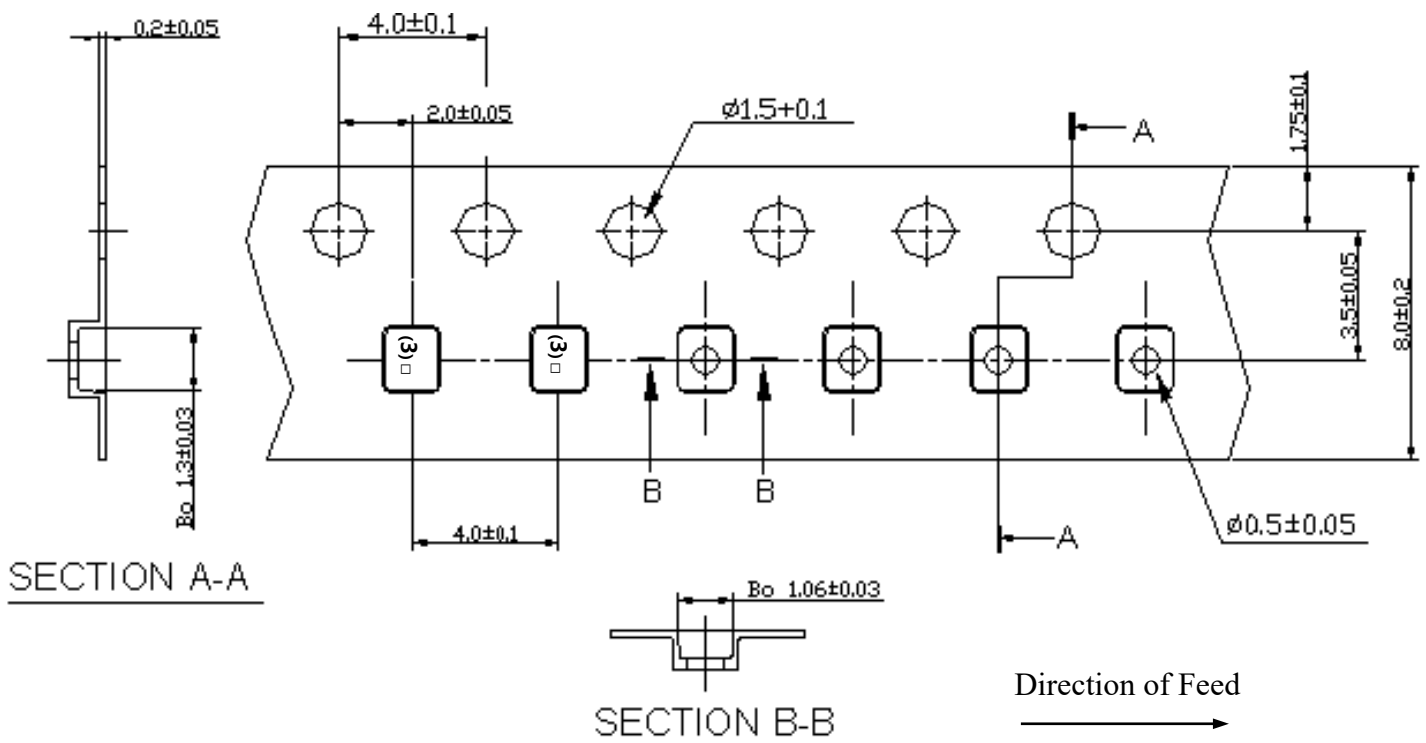


**PACKING**  
REEL DIMENSION

Reel Count  
7" = 3000  
10" = 10,000

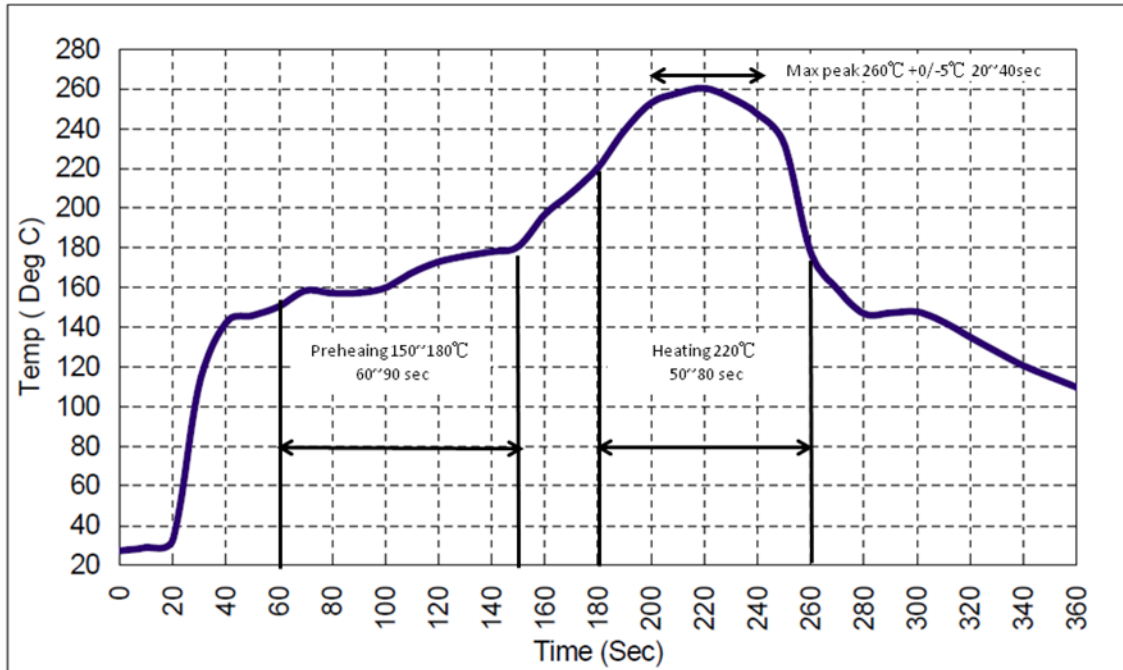


**TAPE DIMENSION**



## 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.



**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.