

SF2689L

**1176.45 MHz
SAW Filter**



SM1109

MAXIMUM RATING:

- Input Power Level: 13 dBm (2000h)
- DC Voltage : 3 V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- ESD Machine Mode : 50V
- ESD Human Body Mode : 100V
- Moisture Sensitive Level (MSL): Level 2a

ELECTRICAL CHARACTERISTICS:

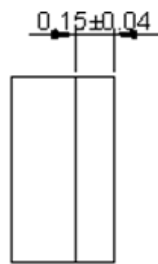
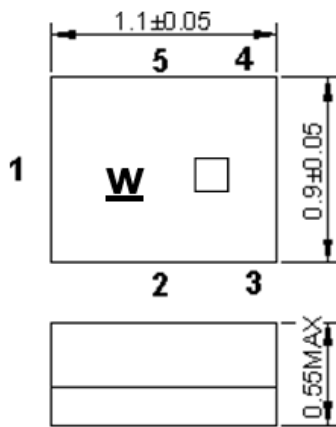
Temperature range for specification : $T_{spec} = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	1176.45	-
Insertion Loss (1166.45~1186.45 MHz) IL	dB	-	1.4	2
Amplitude Ripple (1166.45~1186.45 MHz)	dB _{p-p}	-	0.4	1.3
VSWR (1166.45~1186.45 MHz)		-	1.6	2.1
Attenuation (refer to 0 dB)				
100 ~ 1080 MHz	dB	30	44	-
1080 ~ 1130 MHz	dB	20	26	-
1230 ~ 2000 MHz	dB	30	32	-
2000 ~ 3000 MHz	dB	25	29	-
Temperature Coefficient	ppm/K	-	-36	-

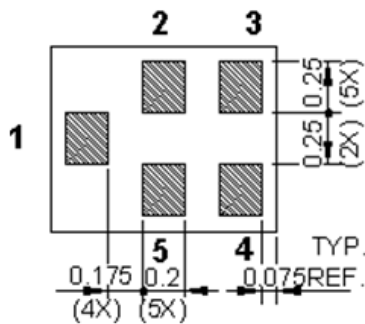
OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

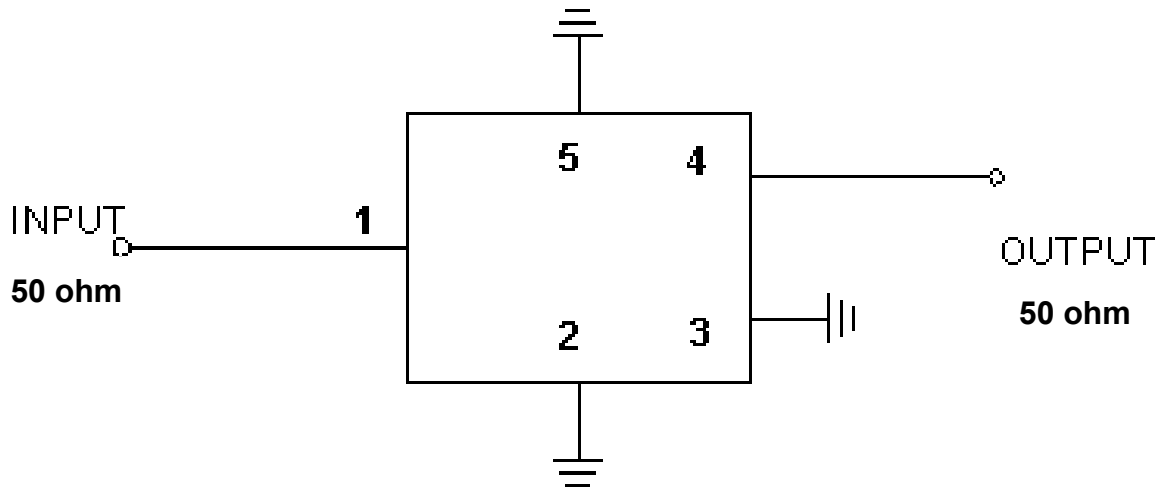


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

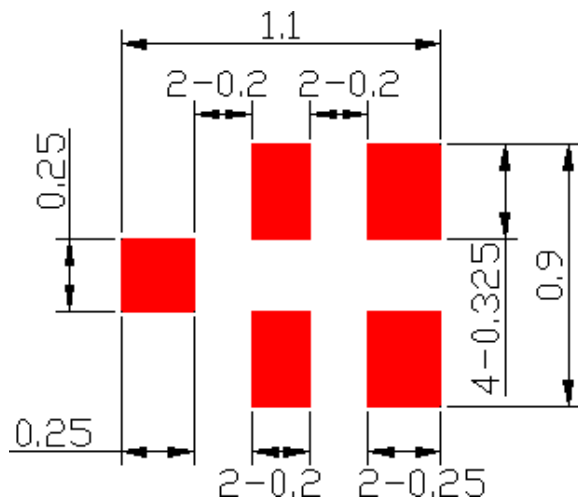
□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2027	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2028	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

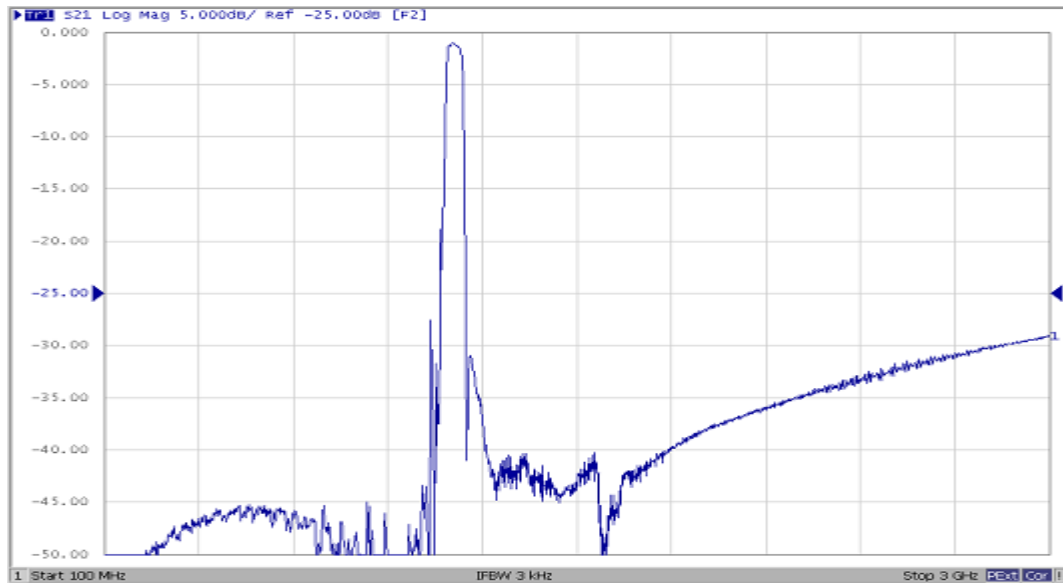
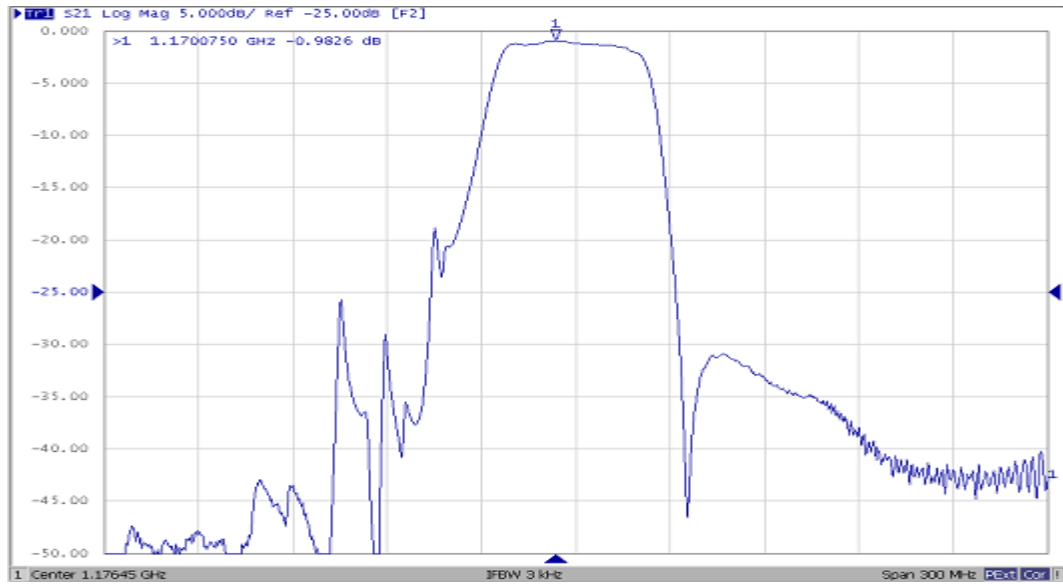
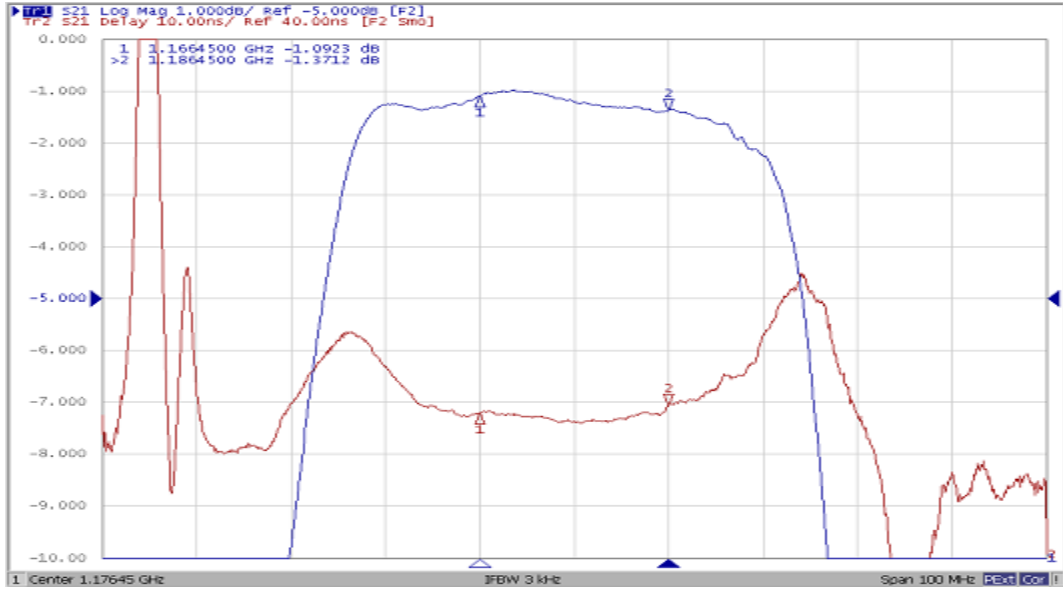
MEASUREMENT CIRCUIT:

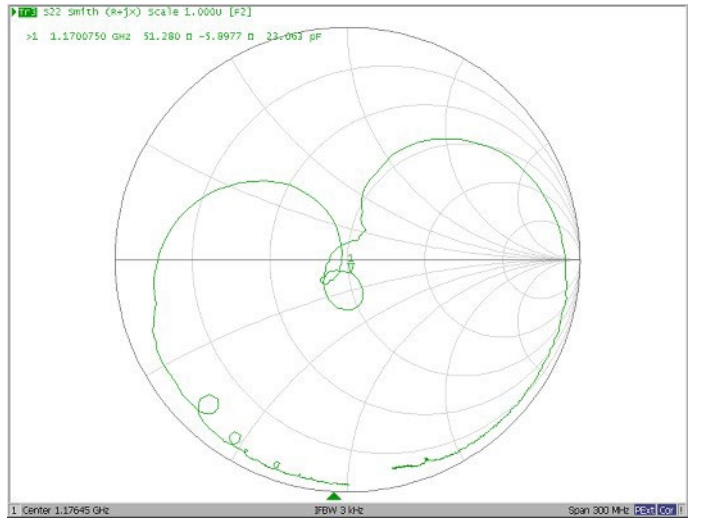
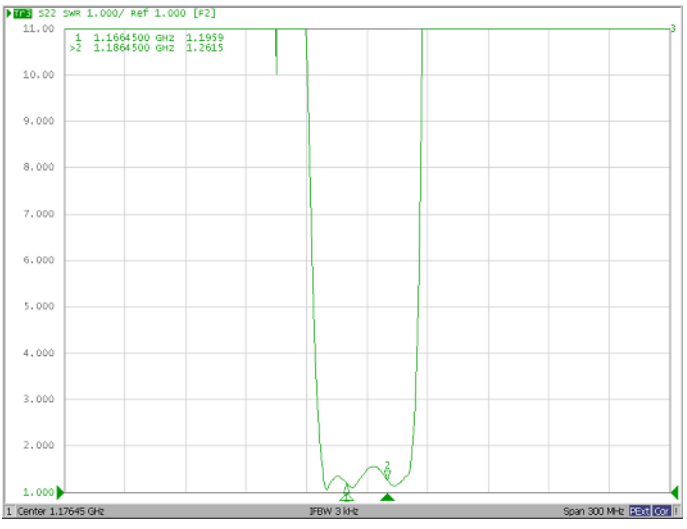
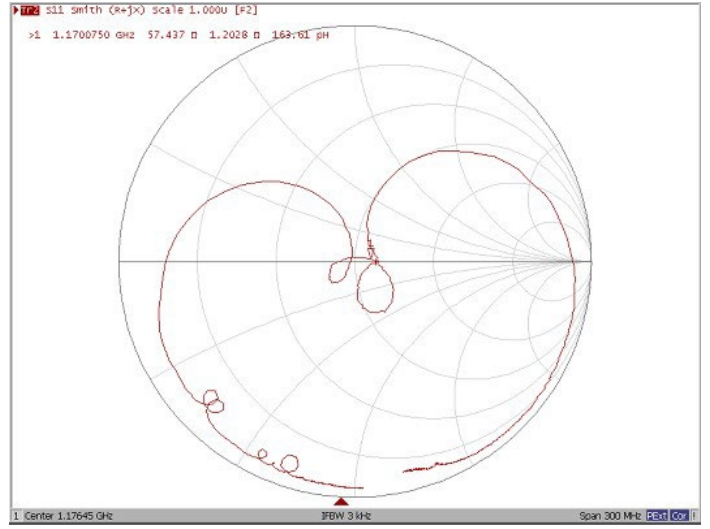
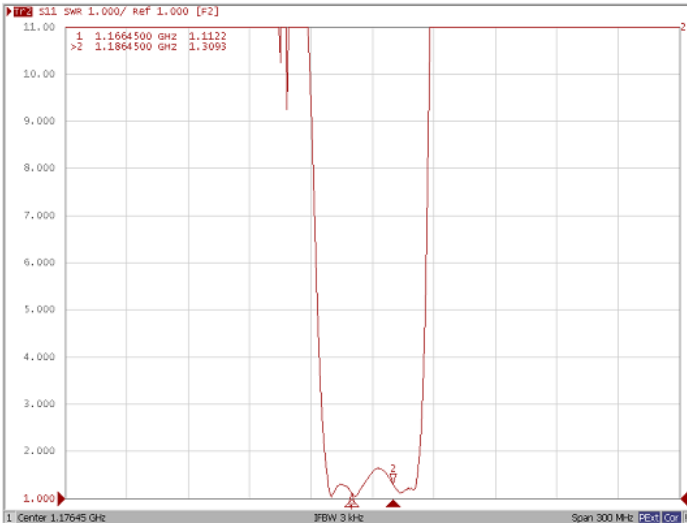


PCB Footprint:



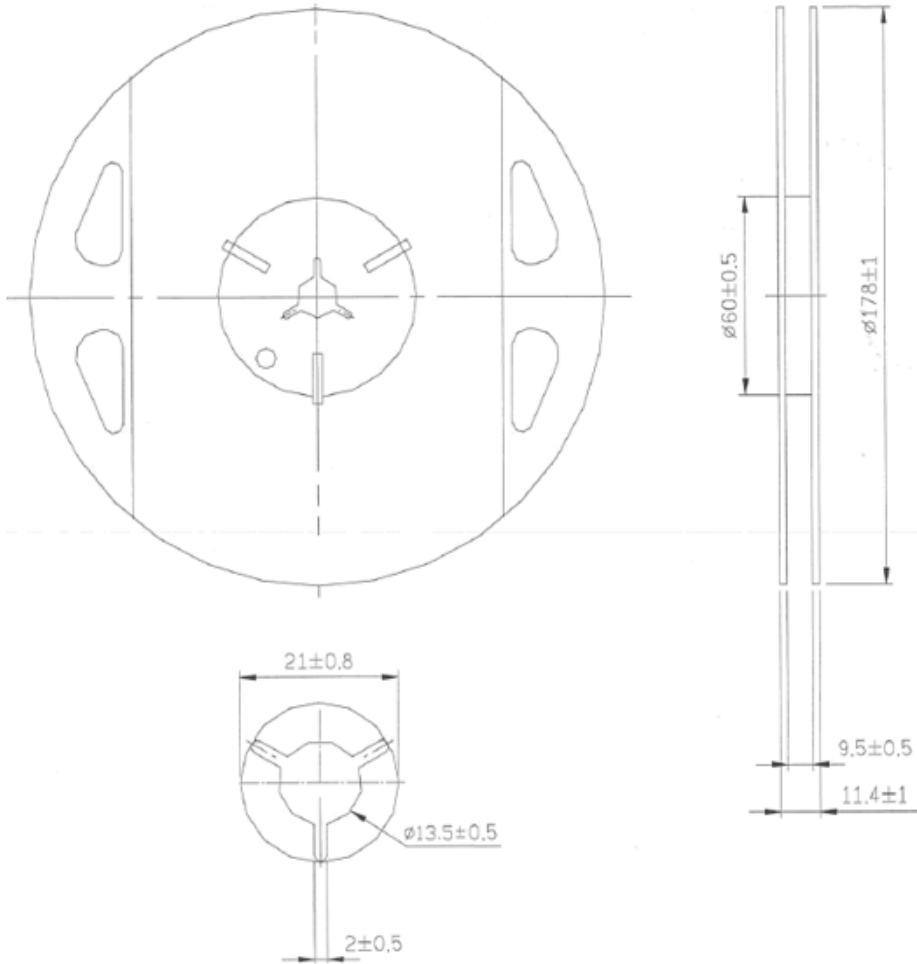
Frequency Characteristics:



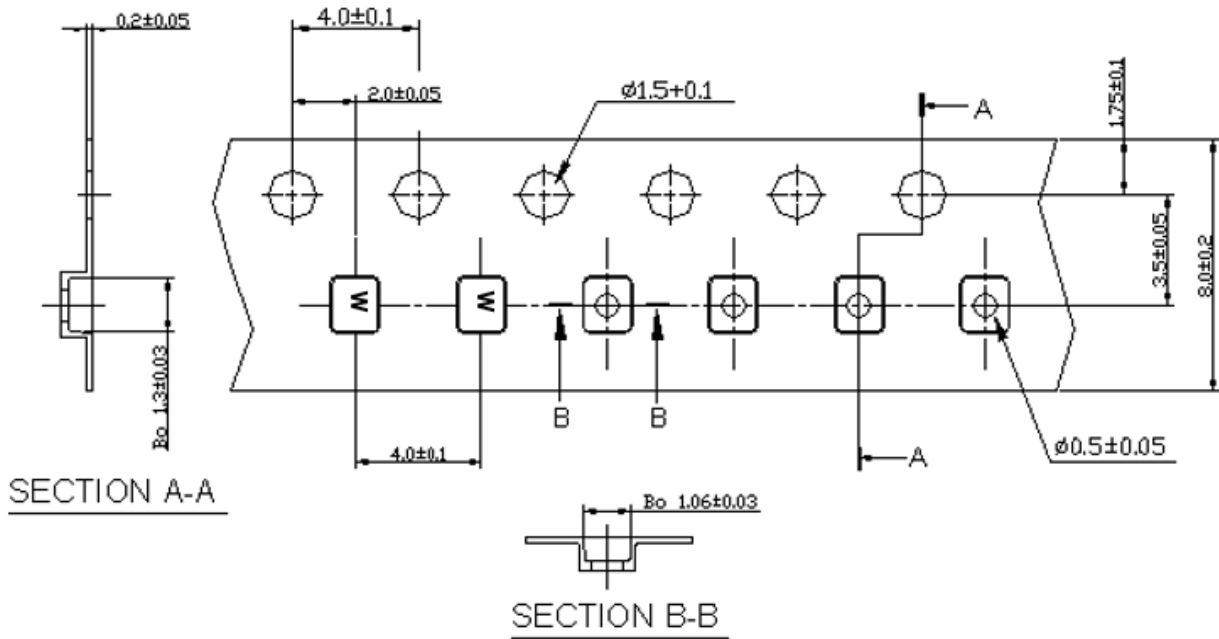


PACKING:
1. REEL DIMENSION

Reel Count"
7" = 3000
13" = 10,000

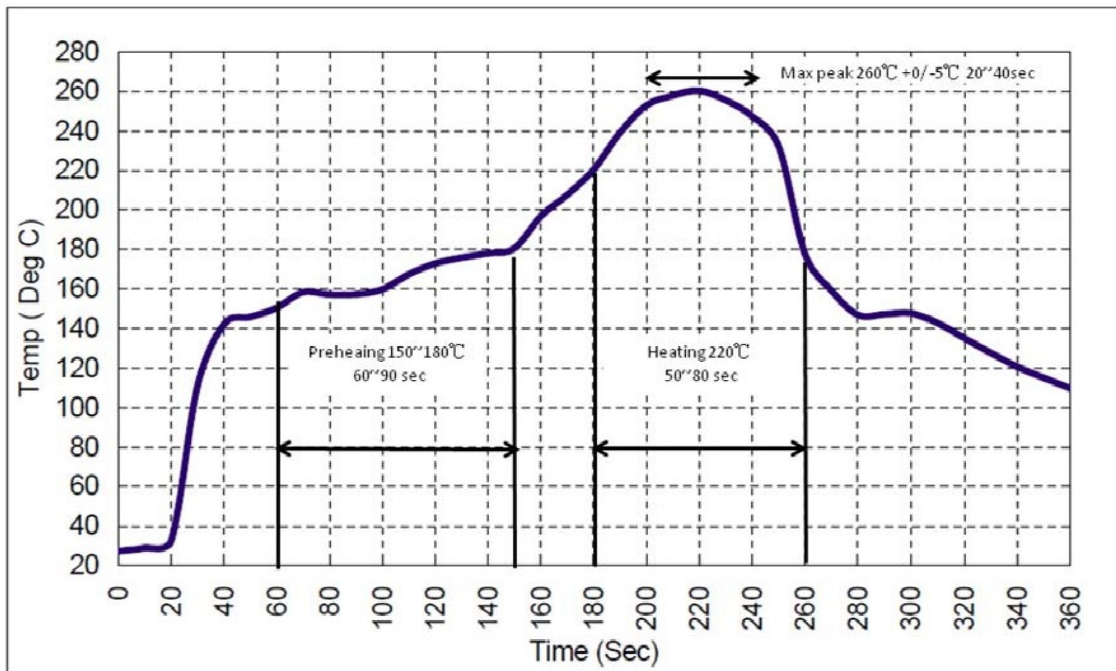


2. TAPE DIMENSION



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



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

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.