

SF2666LA

**1582.47 MHz
Filter**



SM1109

MAXIMUM RATING:

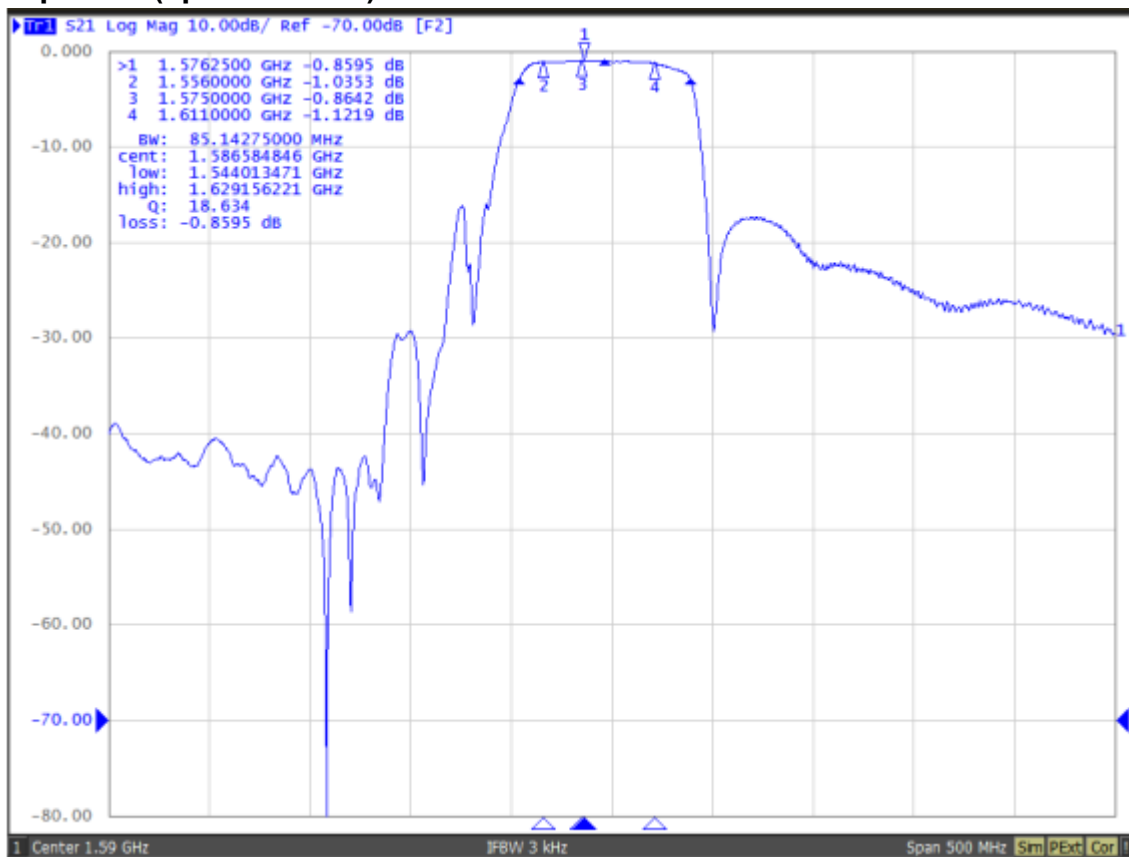
- Input Power Level: 10 dBm
- DC Voltage : 5V
- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +125°C
- Moisture Sensitivity Level: Level 1(MSL1)
- AEC-Q200 Qualified

ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max. -	
Center Frequency Fc	MHz	-	1582.47	-	
Insertion Loss (1559.05~1563.15 MHz) IL	dB	-	1.2	1.3	
Insertion Loss (1574.39~1576.45 MHz) IL			1.0	1.1	
Insertion Loss (1597.55~1605.89 MHz) IL			1.2	1.3	
VSWR (1559.05~1563.15 MHz)		-	1.5	1.8	
VSWR (1574.39~1576.45 MHz)		-	1.4	1.8	
VSWR (1597.55~1605.89 MHz)		-	1.5	2.0	
Group Delay Variation					
(1559.05~1563.15 MHz)	ns		3	11	
(1574.39~1576.45 MHz)			2	6	
(1597.55~1605.89 MHz)			4	11	
Attenuation					
10 ~ 617 MHz	dB	35	40	-	
617 ~ 960 MHz	dB	30	35	-	
1427.9 ~ 1495.9 MHz	dB	24	29	-	
1495.9 ~ 1510.9 MHz	dB	16	26	-	
1710 ~ 1755 MHz	dB	20	28	-	
1755 ~ 2170 MHz	dB	23	29	-	
2300 ~ 2690 MHz	dB	29	35	-	
3300 ~ 4200 MHz	dB	28	33	-	
4400 ~ 5000 MHz	dB	27	31	-	
5150 ~ 5925 MHz	dB	26	30	-	
Temperature coefficient	ppm/°C	-36			
Package size	mm	SMD 1.1x0.9			

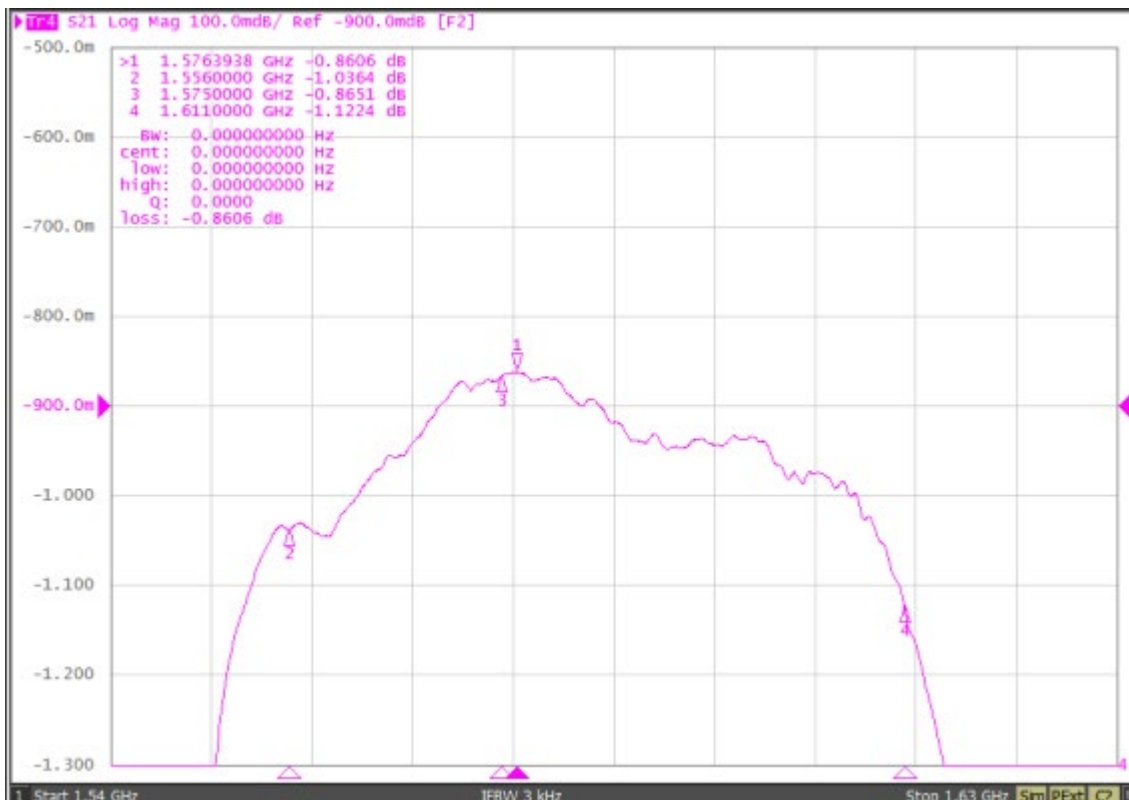
FREQUENCY CHARACTERISTICS:

S21 response: (span 500MHz)

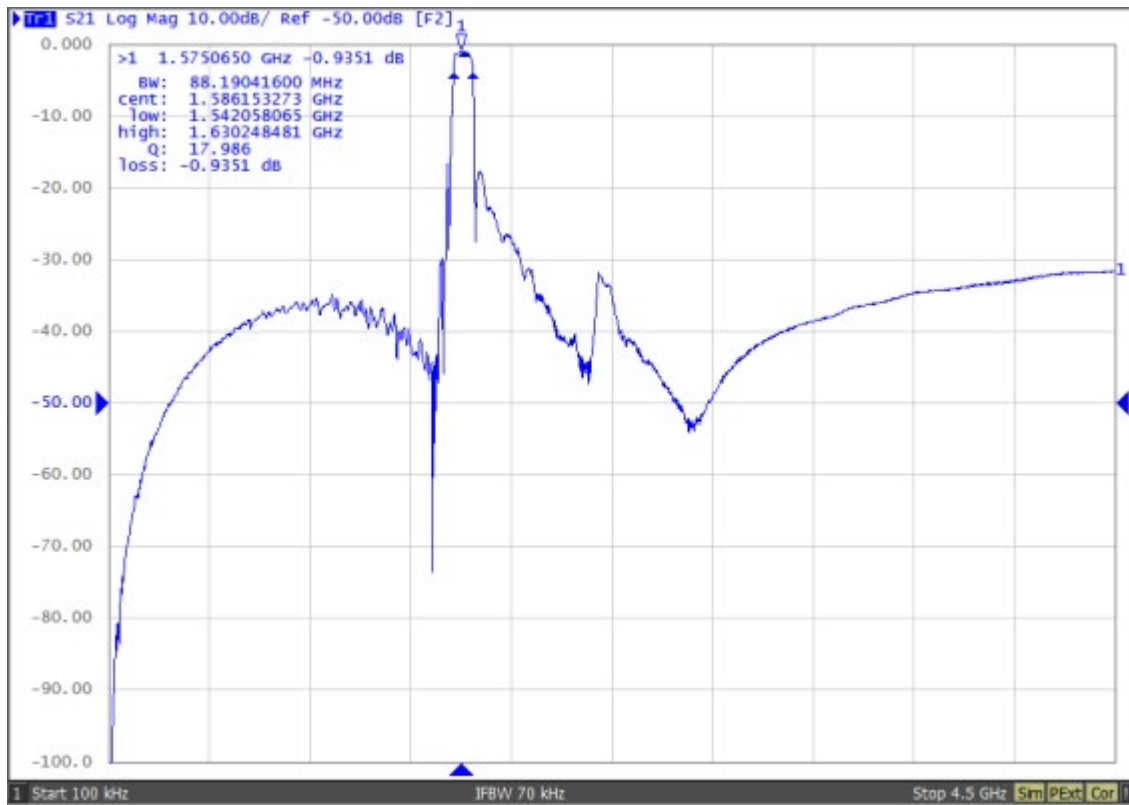


S21

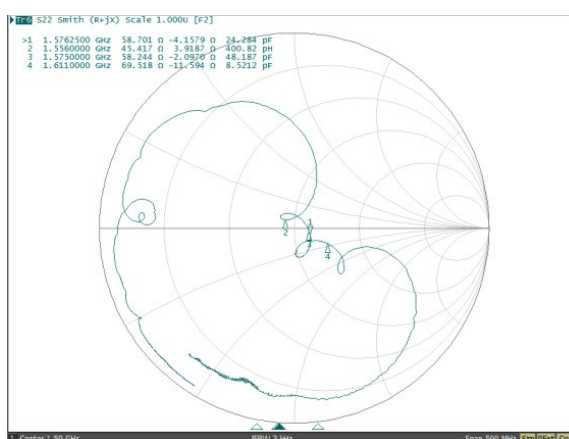
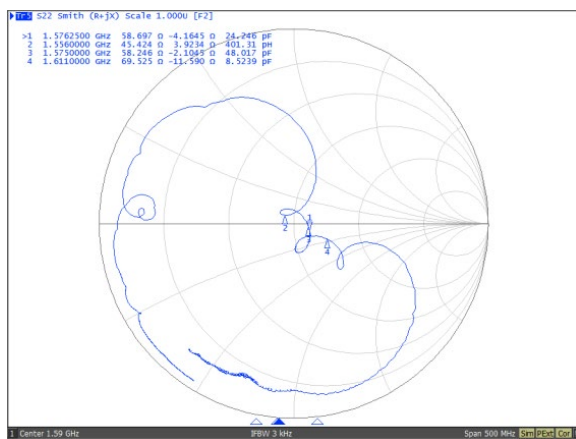
response: (span 90MHz)



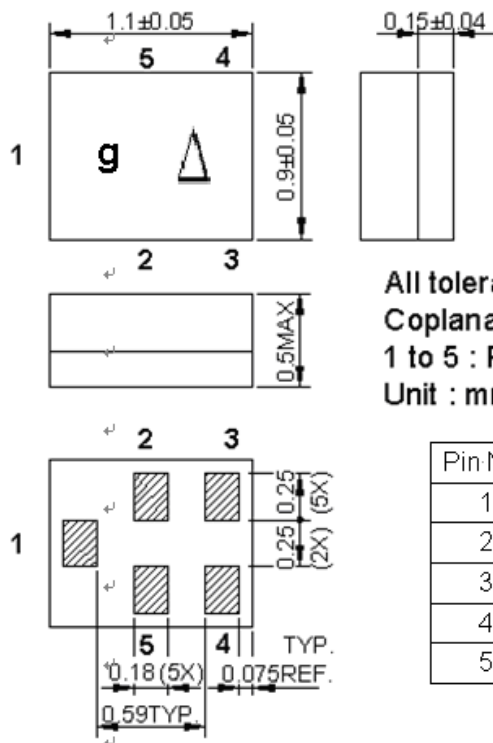
S21 response: (span 4.5GHz)



S11/S22 response: (span 500MHz)



OUTLINE DRAWING:



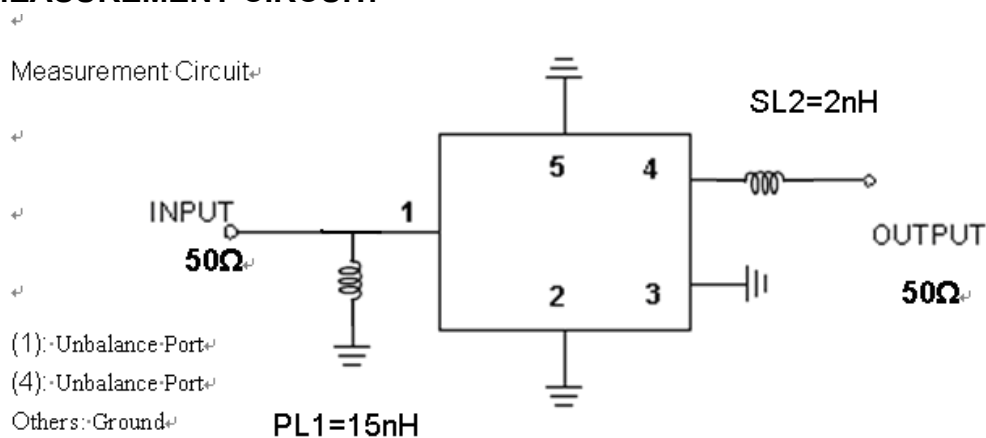
All tolerances are ± 0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm

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

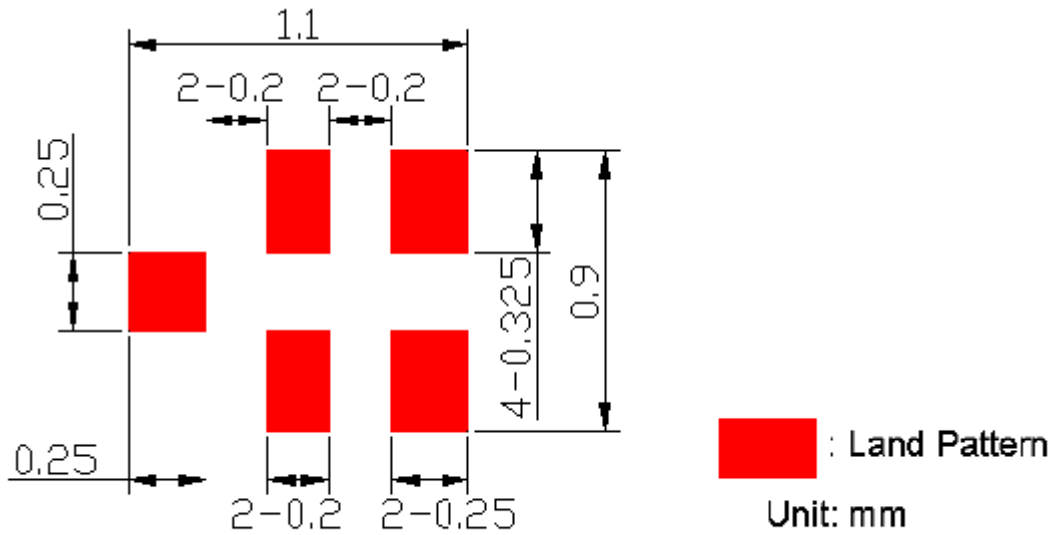
Δ : Year/Month Code (Follow the table)

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:



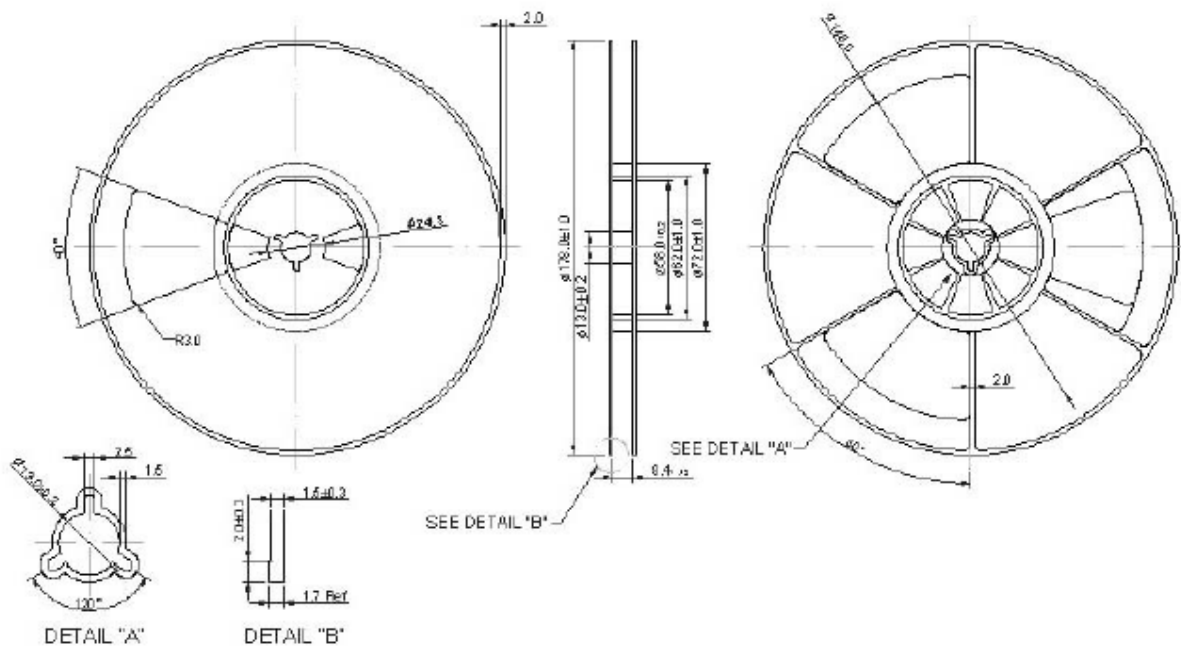
PCB Footprint:



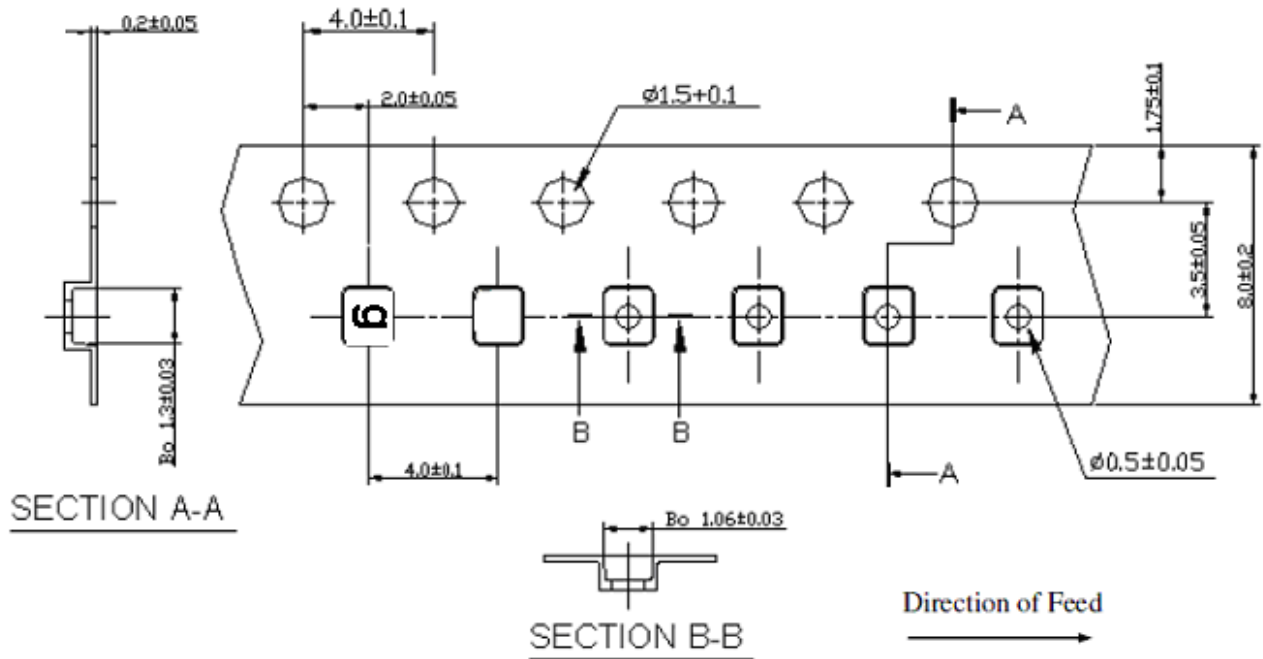
PACKING:

1. REEL DIMENSION

Reel Count: 7" = 3000

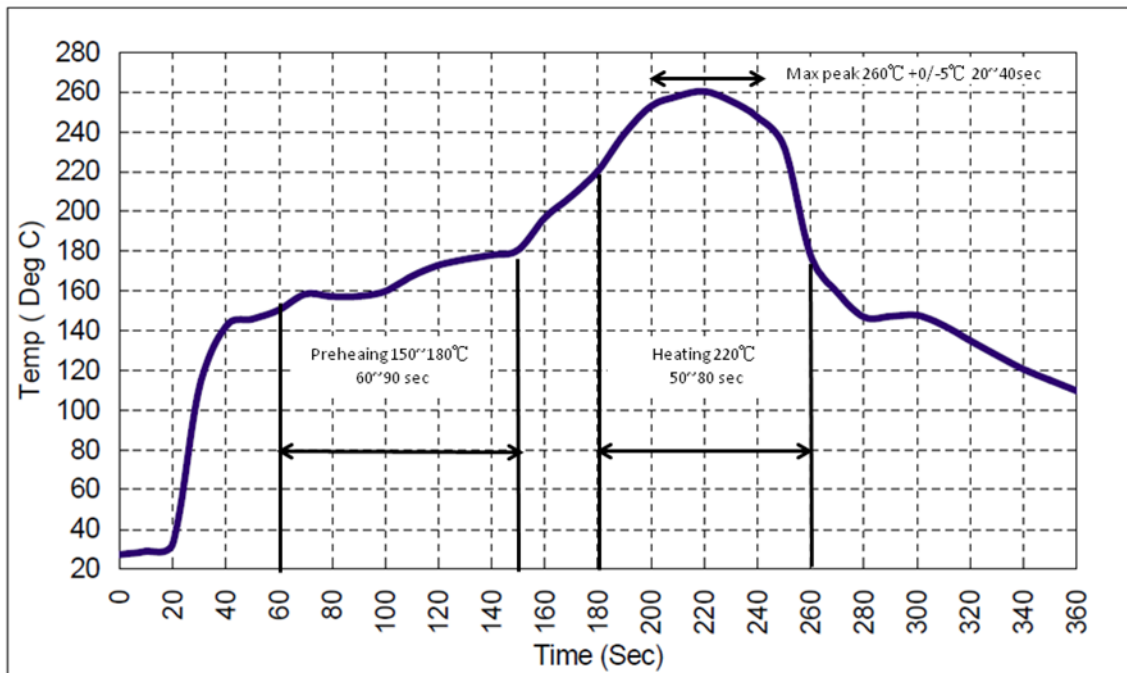


2. TAPE DIMENSION



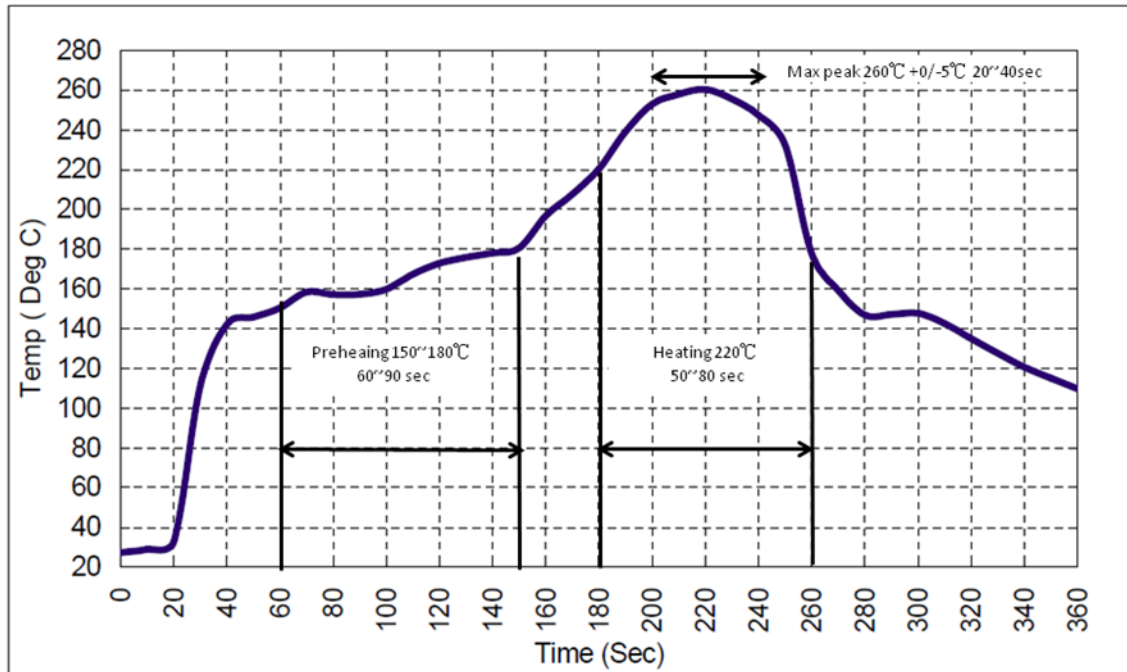
RECOMMENDED REFLOW PROFILE :

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 $260^{\circ}\text{C} + 0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.



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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.