

SF2686L

**2441.75 MHz
SAW Filter**



SM1109

MAXIMUM RATING:

- Input Power Level: 25 dBm
- DC Voltage : 3V
- Operating Temperature: -30°C to +85°C
- Storage Temperature: -40°C to +105°C
- Moisture Sensitivity Level: Level 3(MSL3)

ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Type.	Max
Center Frequency Fc	MHz	-	2441.75	-
Insertion Loss IL 2400 – 2483.5 MHz	dB		2.2	2.6
Amplitude ripple 2400 – 2483.5 MHz			0.7	1.5
VSWR 2400 – 2483.5 MHz			2.0	2.4
Attenuation				
0.1 – 960 MHz	dB	30	35	
1570 – 1990 MHz	dB	32	35	
2110 – 2170 MHz	dB	40	45	
2170 – 2300 MHz	dB	30	35	
2300 – 2320 MHz	dB	25	33	
2320 – 2345 MHz	dB	18	25	
2345 – 2365 MHz	dB	10	15	
2550 – 2800 MHz	dB	15	20	
2800 – 4000 MHz	dB	30	33	
4000 – 5000 MHz	dB	30	33	
Temperature coefficient	ppm/°C	-36		
Package size	mm	SMD 1.1x0.9		

FREQUENCY CHARACTERISTICS:

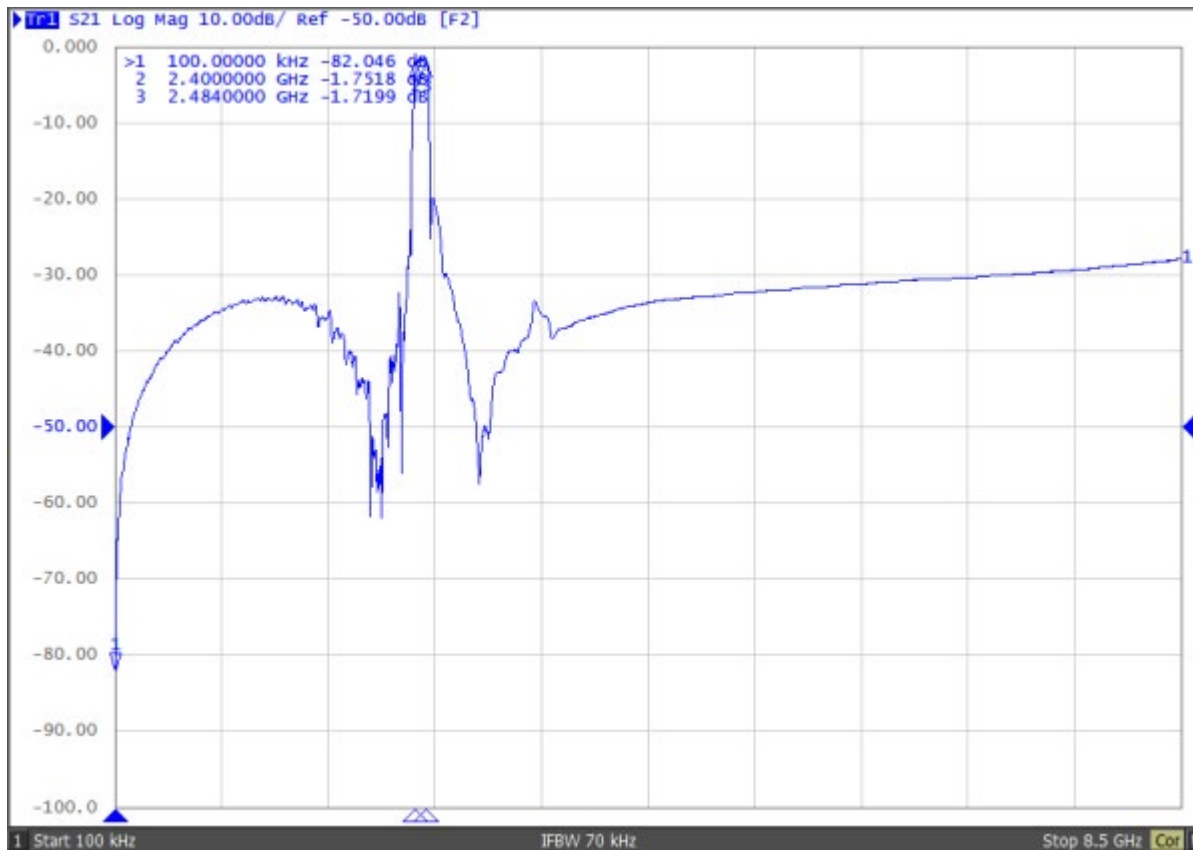
S21 response: (span 500MHz)



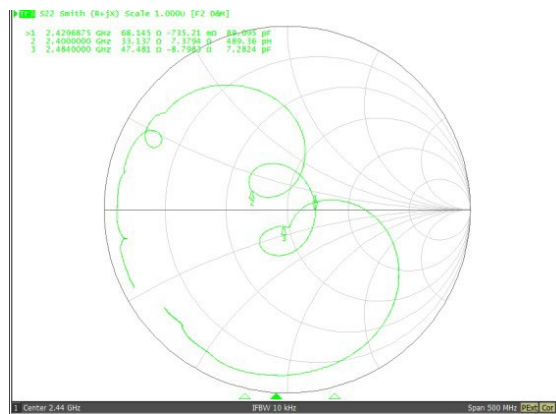
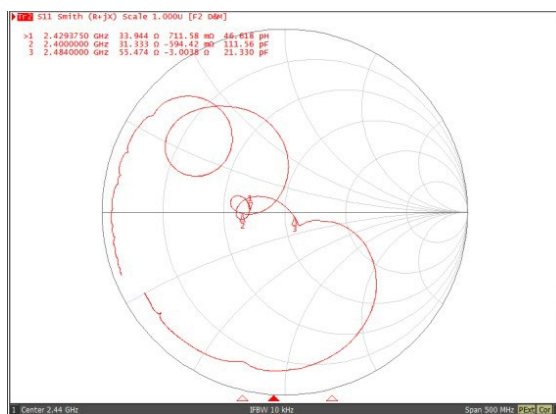
S21 response: (span 200MHz)



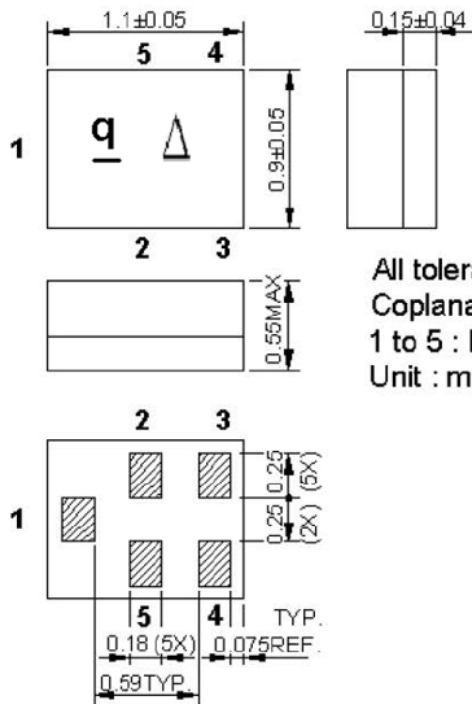
S21 response: (span 8.5GHz)



S11/S22 response:



OUTLINE DRAWING:



All tolerances are ± 0.05 mm unless otherwise specified

Coplanarity : 0.1 mm max.

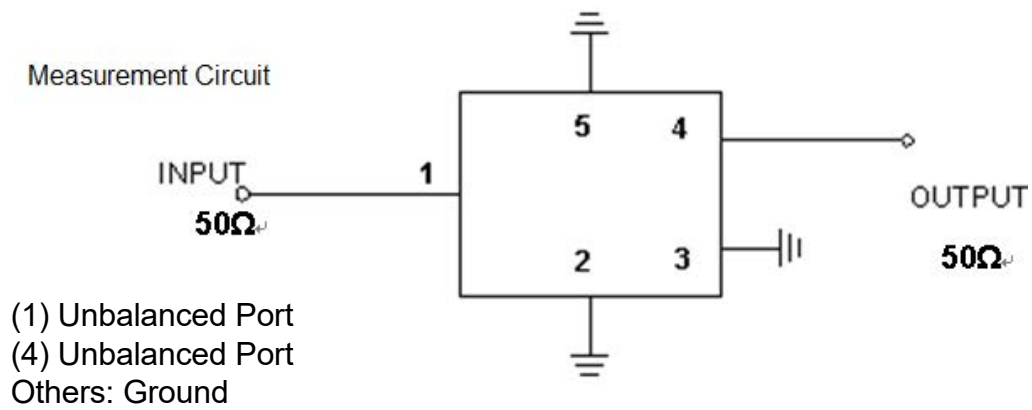
1 to 5 : Pin No.

Unit : mm

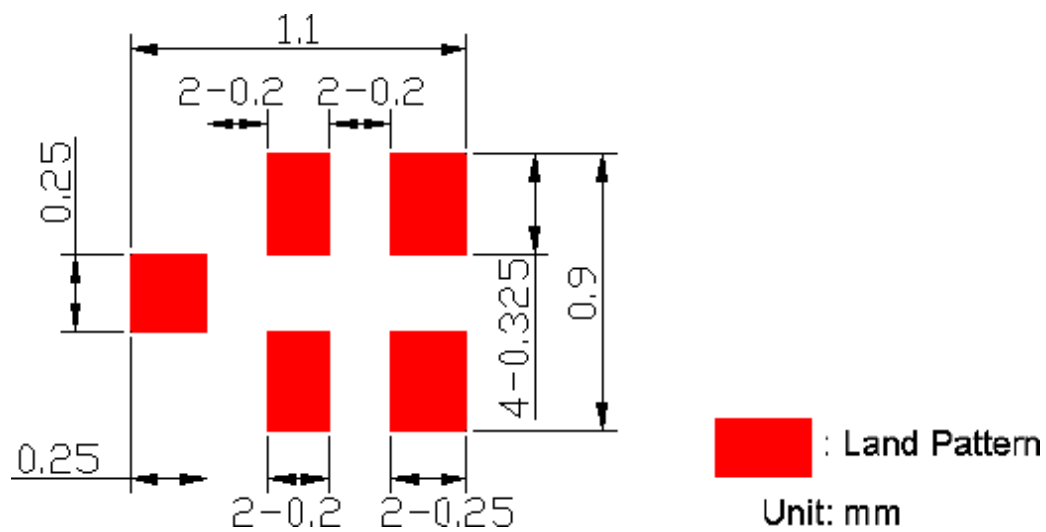
Δ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013/2021	A	B	C	D	E	F	G	H	J	K	L	M
2014/2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015/2023	a	b	c	d	e	f	g	h	j	k	l	m
2016/2024	n	p	q	r	s	t	u	v	w	x	y	z
2017/2025	<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>
2018/2026	<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>
2019/2027	<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>
2020/2028	<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:



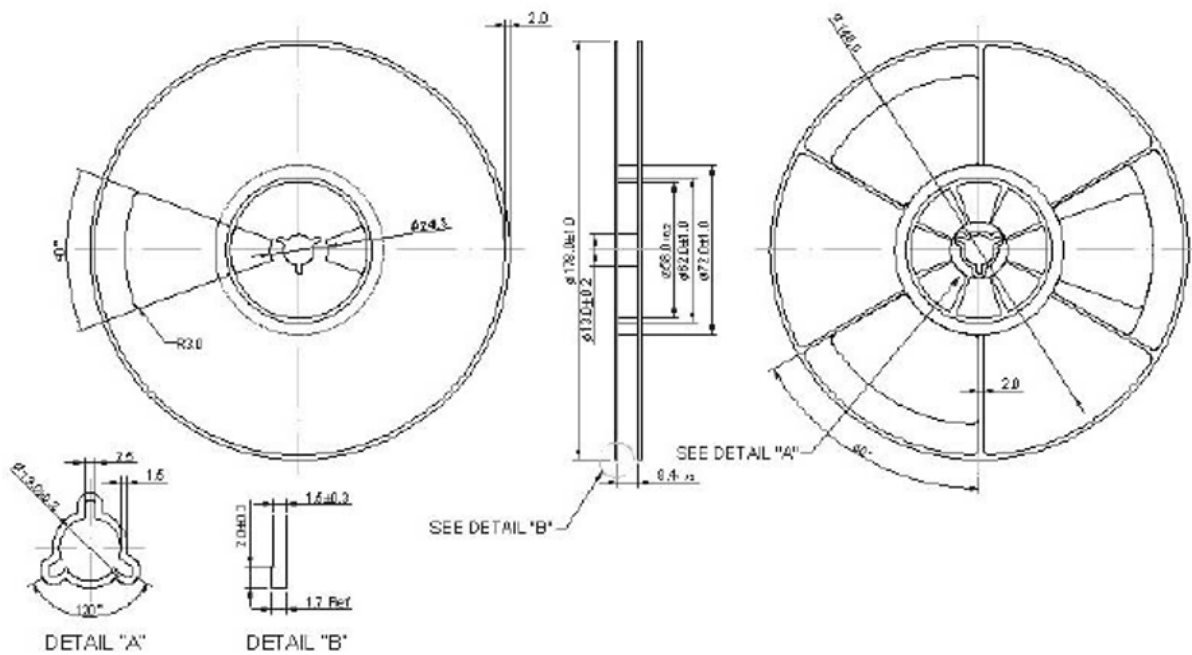
PCB Footprint:



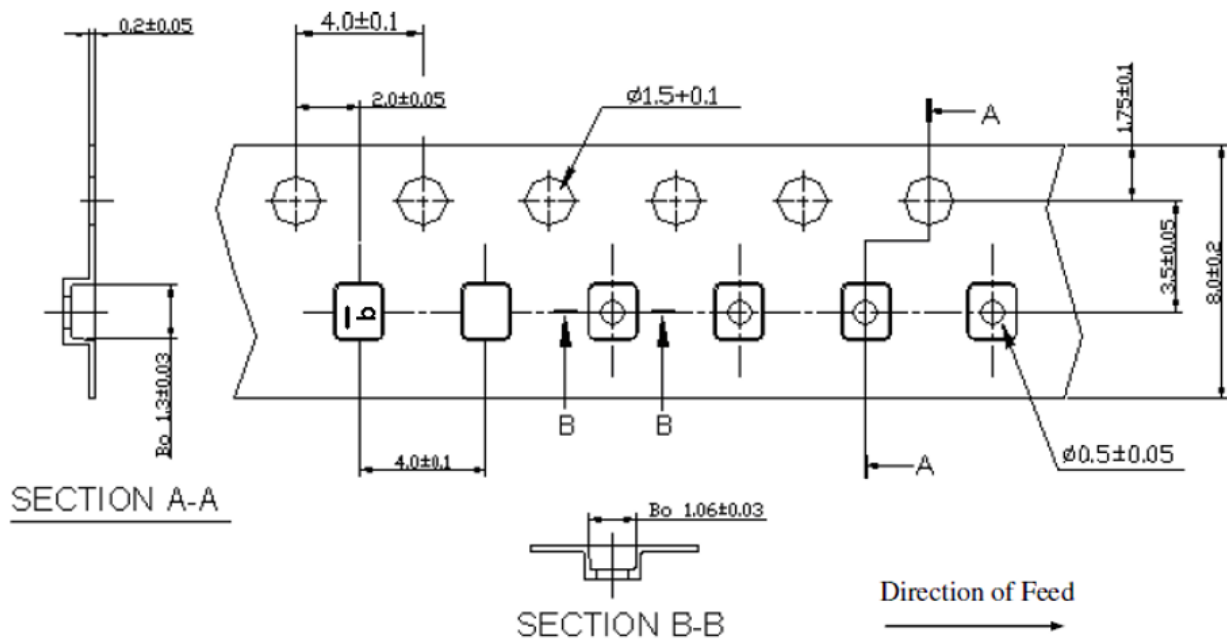
PACKING:

1. REEL DIMENSION

Reel Count: 7" = 3000

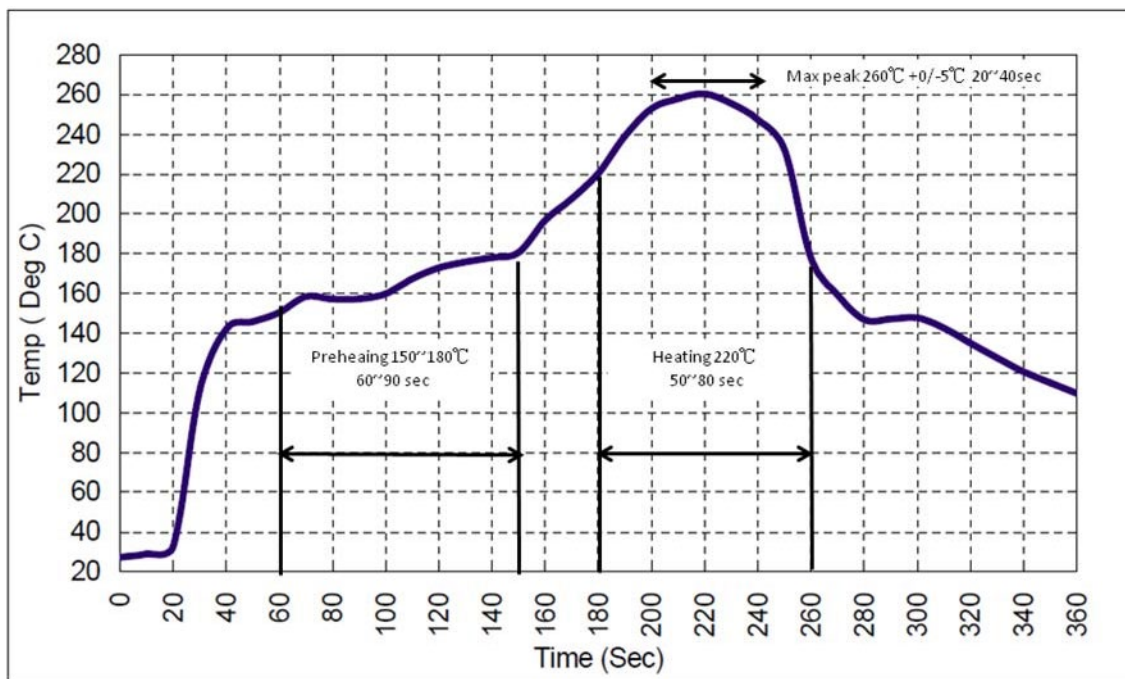


2. TAPE DIMENSION



RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°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.

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.