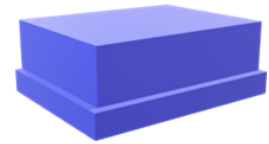


SF2666LA

**1582.47 MHz
Filter**



SM1109

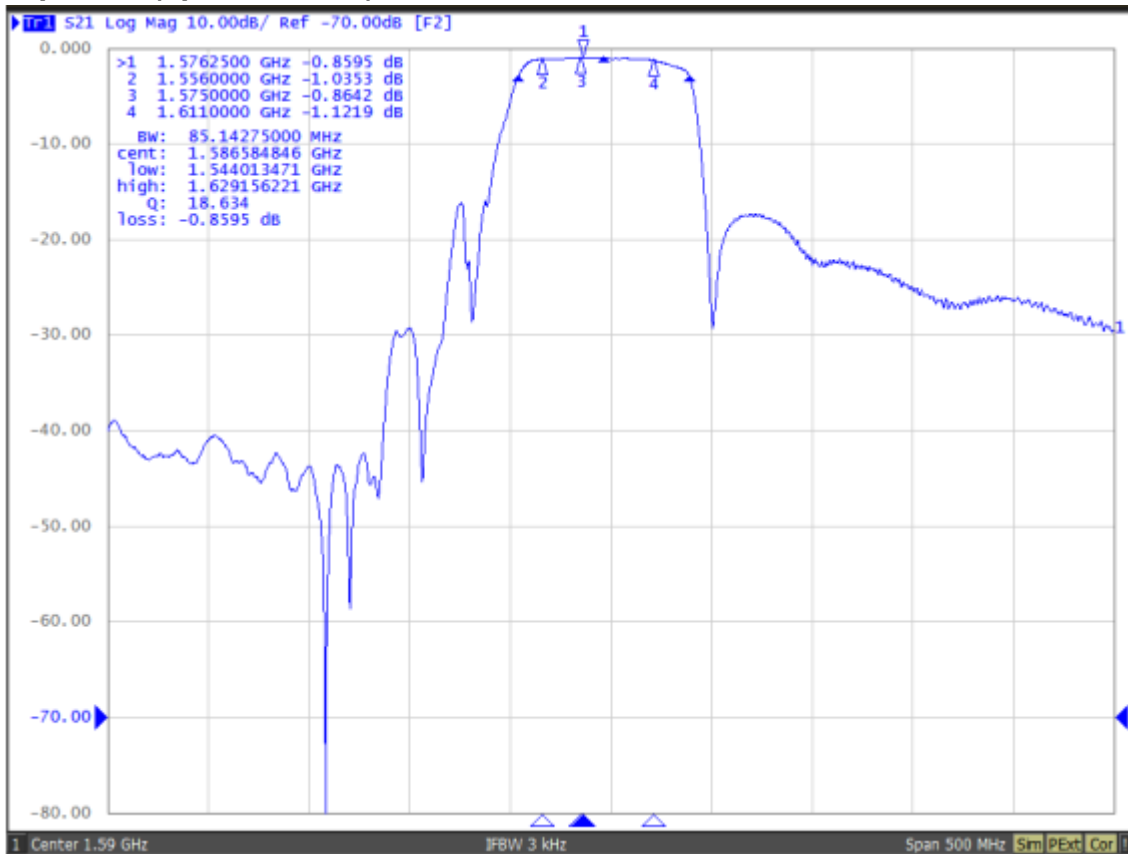
MAXIMUM RATING:

- 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:

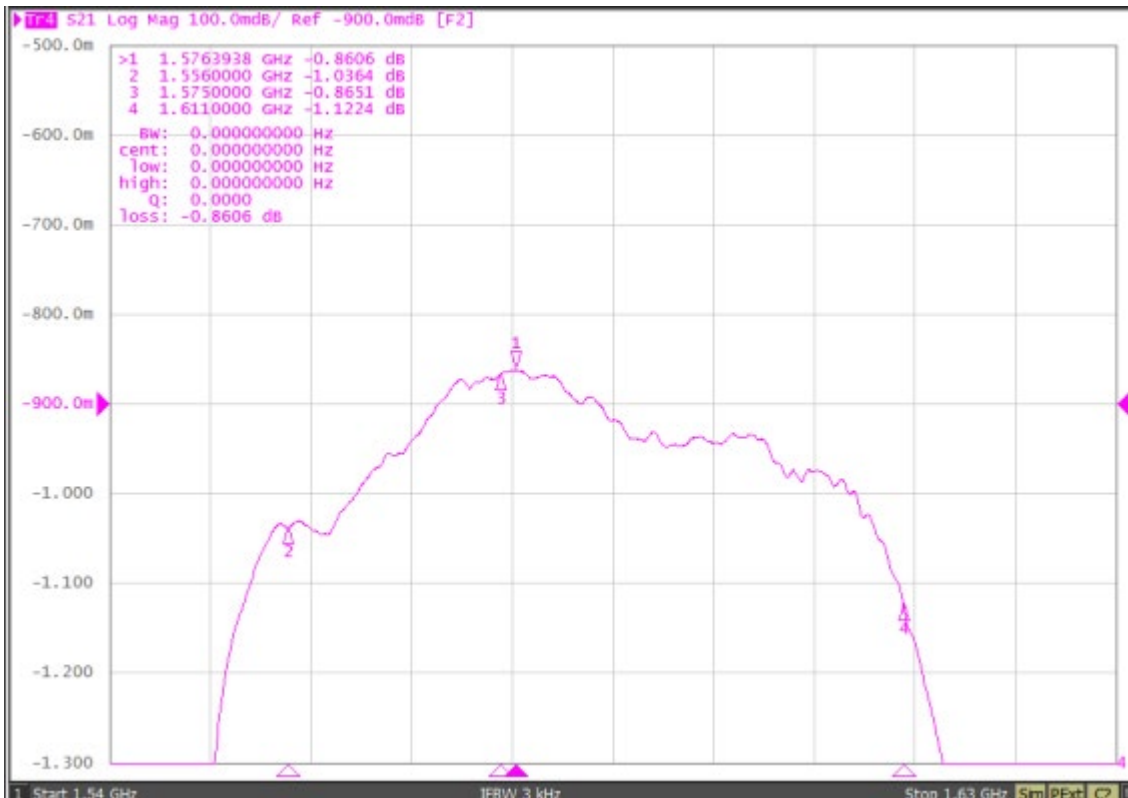
Item	Unit	Min.	Type.	Max. -	
Center Frequency Fc	MHz	-	1582.47	-	
Insertion Loss (1559.05~1563.15 MHz)	IL	dB	1.2	1.3	
Insertion Loss (1574.39~1576.45 MHz)			1.0	1.1	
Insertion Loss (1597.55~1605.89 MHz)			1.2	1.3	
VSWR (1559.05~1563.15 MHz)		-	1.5	1.8	
VSWR (1574.39~1576.45 MHz)		-	1.4	1.8	
VSWR (1597.55~1605.89 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					
1427.9 ~ 1495.9 MHz					
1495.9 ~ 1510.9 MHz					
1710 ~ 1755 MHz					
1755 ~ 2170 MHz					
2300 ~ 2690 MHz					
3300 ~ 4200 MHz					
4400 ~ 5000 MHz					
5150 ~ 5925 MHz					
Temperature coefficient					
Package size	mm	SMD 1.1x0.9			

FREQUENCY CHARACTERISTICS:
S21 response: (span 500MHz)

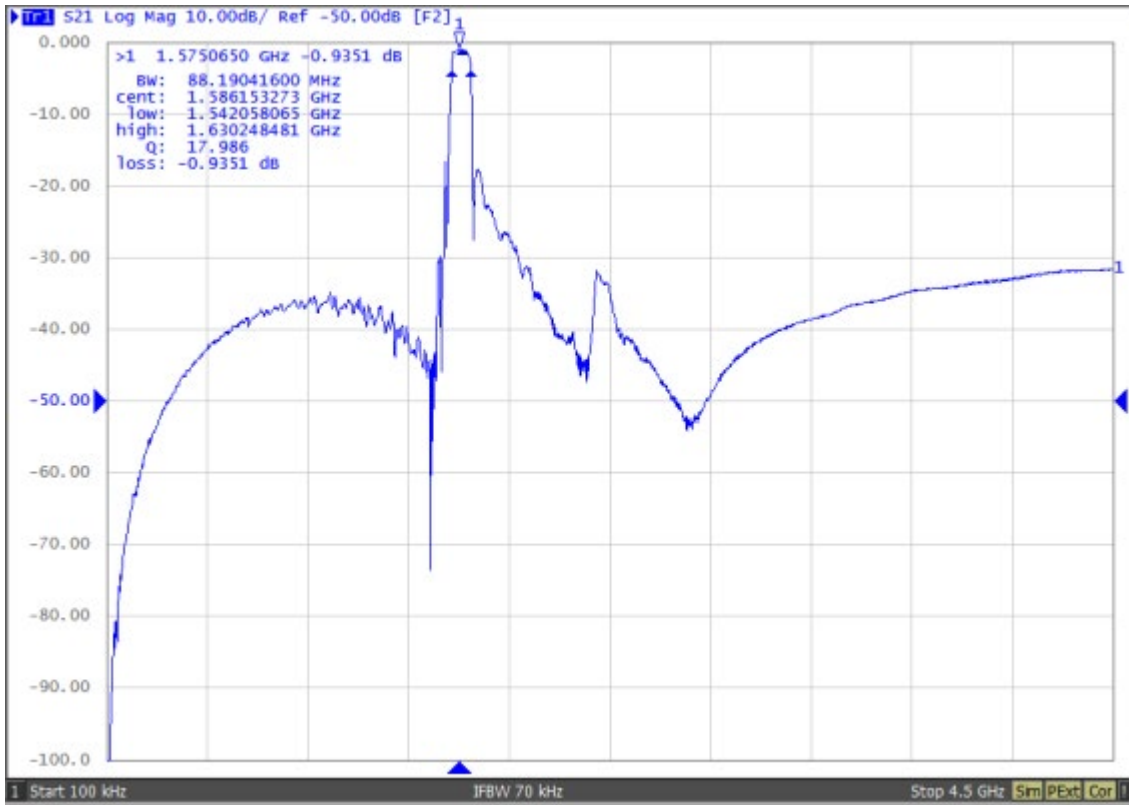


S21

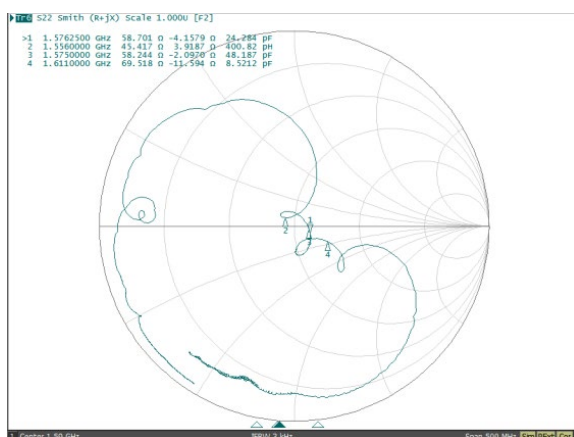
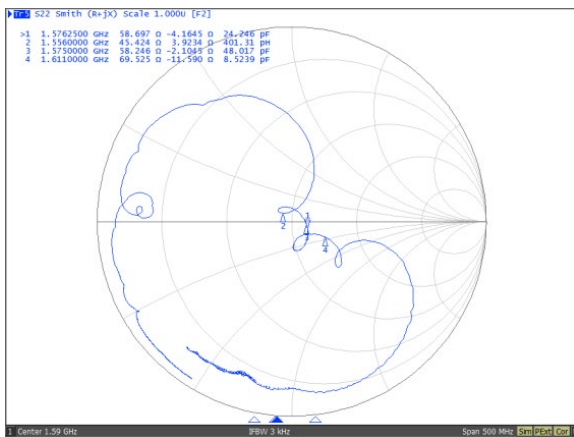
response: (span 90MHz)



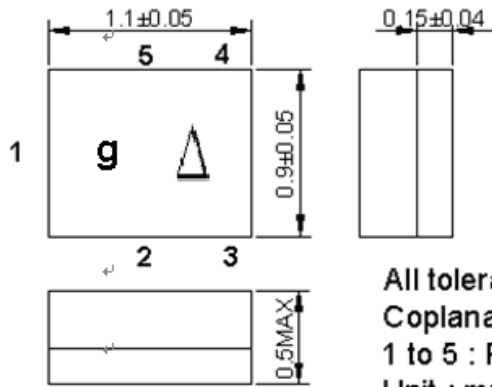
S21 response: (span 4.5GHz)



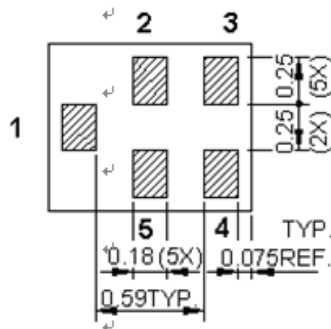
S11/S22 response: (span 500MHz)



OUTLINE DRAWING:



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

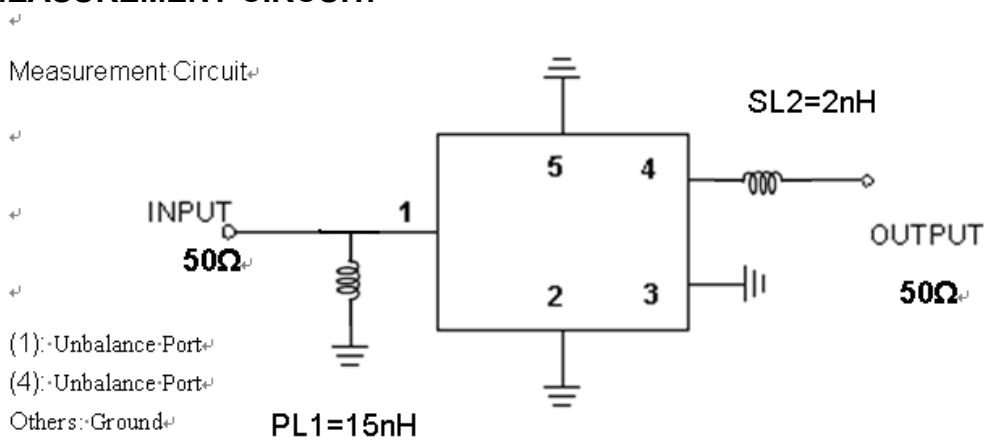


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

△ : Year/Month Code (Follow the table)

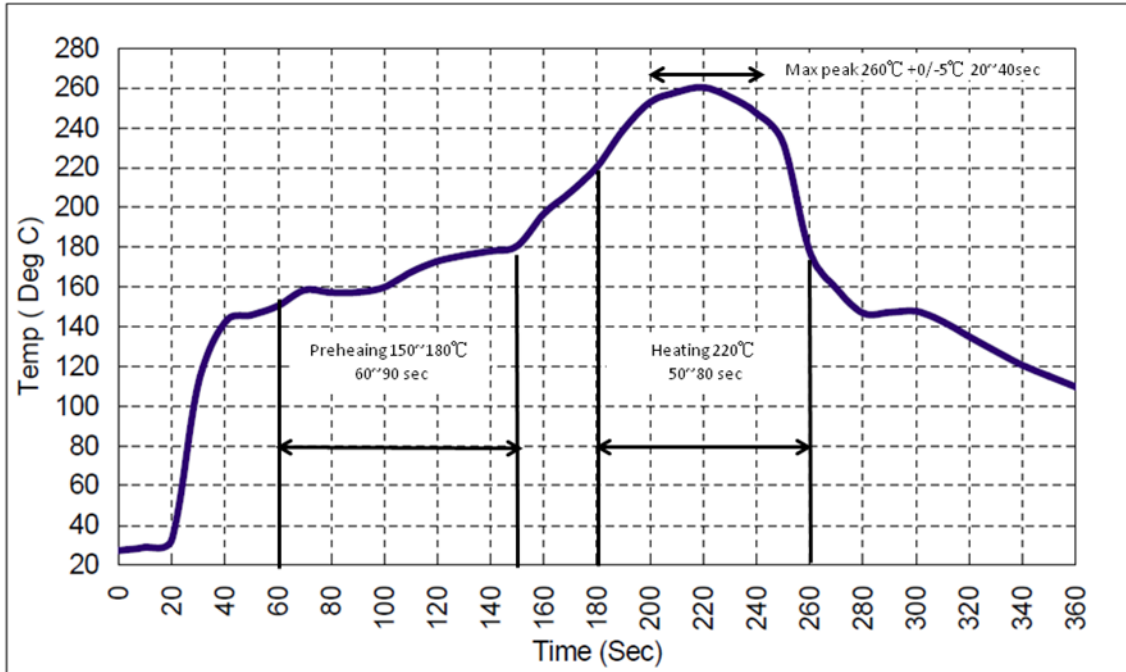
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R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



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.