

SF2526L

**2332.5 MHz
SAW Filter**



SM1109-5

MAXIMUM RATING:

- Input Power Level: 10 dBm
- DC Voltage : 3 V
- Operating Temperature: -40°C to +105°C
- Storage Temperature: -40°C to +125°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 $+105^{\circ}\text{C}$

Terminating source impedance : $Z_s = 50\ \Omega$

Terminating load impedance : $Z_L = 50\ \Omega$

Item	Unit	Min.	Typ.	Max.
Center Frequency F_c	MHz	-	2332.5	-
Min. Insertion Loss (2320~2345 MHz) α	dB	-	3.1	-
Max. Insertion Loss (2320~2345 MHz) IL	dB	-	4.6	7
Amplitude Ripple (2320~2324.5 MHz)	dB _{p-p}	-	1.3	2.3
Amplitude Ripple (2324.5~2328.2 MHz)	dB _{p-p}	-	0.6	1.2
Amplitude Ripple (2328.2~2332.5 MHz)	dB _{p-p}	-	0.2	1.2
Amplitude Ripple (2332.5~2334.38 MHz)	dB _{p-p}	-	0.4	1.2
Amplitude Ripple (2334.38~2336.25 MHz)	dB _{p-p}	-	0.2	1.2
Amplitude Ripple (2336.25~2337.75 MHz)	dB _{p-p}	-	0.2	1.2
Amplitude Ripple (2337.75~2341.25 MHz)	dB _{p-p}	-	0.3	1.2
Amplitude Ripple (2341.25~2343.125 MHz)	dB _{p-p}	-	0.2	1.2
Amplitude Ripple (2343.125~2345 MHz)	dB _{p-p}	-	0.5	2.1
VSWR (2320~2345 MHz)		-	1.8	2.1
Attenuation (refer to min. insertion loss α)				
100 ~ 800 MHz	dB	35	65	-
800 ~ 2100 MHz	dB	31	42	-
2100 ~ 2275 MHz	dB	32	37	-
2275 ~ 2288 MHz	dB	30	32	-

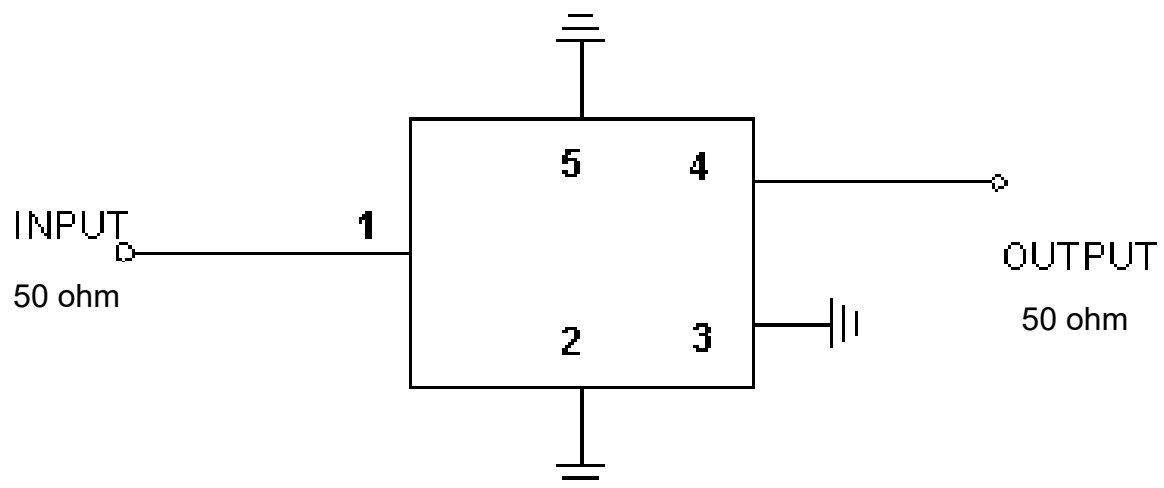
2288 ~ 2300	MHz	dB	25	32	-
2300 ~ 2310	MHz	dB	15	23	-
2310 ~ 2315	MHz	dB	3.5	7.5	-
2350 ~ 2355	MHz	dB	3.5	5.5	-
2355 ~ 2365	MHz	dB	13	17	-
2365 ~ 2377	MHz	dB	39	42	-
2377 ~ 2390	MHz	dB	35	39	-
2390 ~ 3000	MHz	dB	28	30	-
Temperature Coefficient		ppm/°C	-	-6.5	-



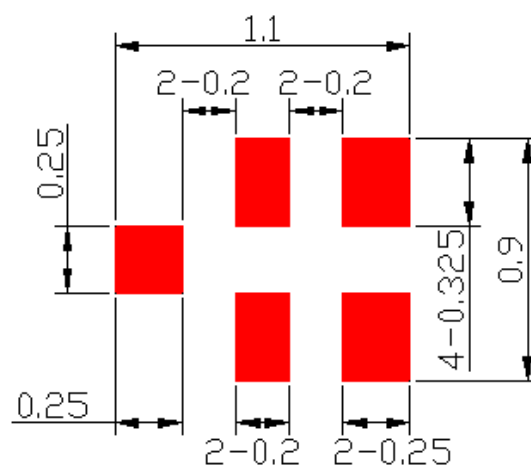
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.

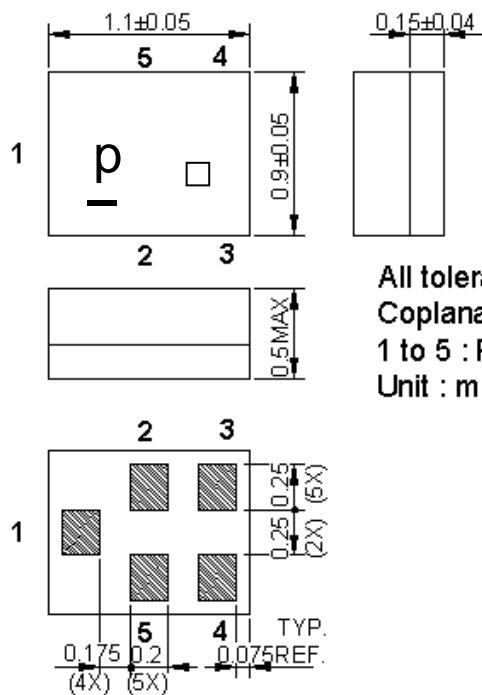
MEASUREMENT CIRCUIT:



PCB Footprint :



OUTLINE DRAWING:



All tolerances are ± 0.05 mm unless otherwise specified

Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

1 : Input

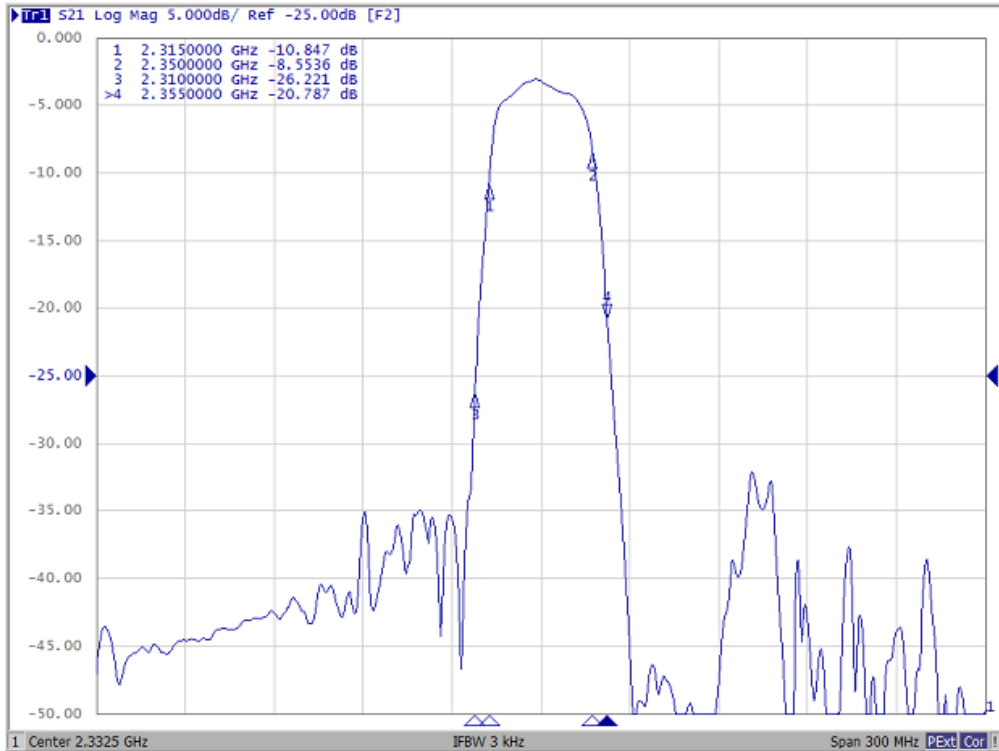
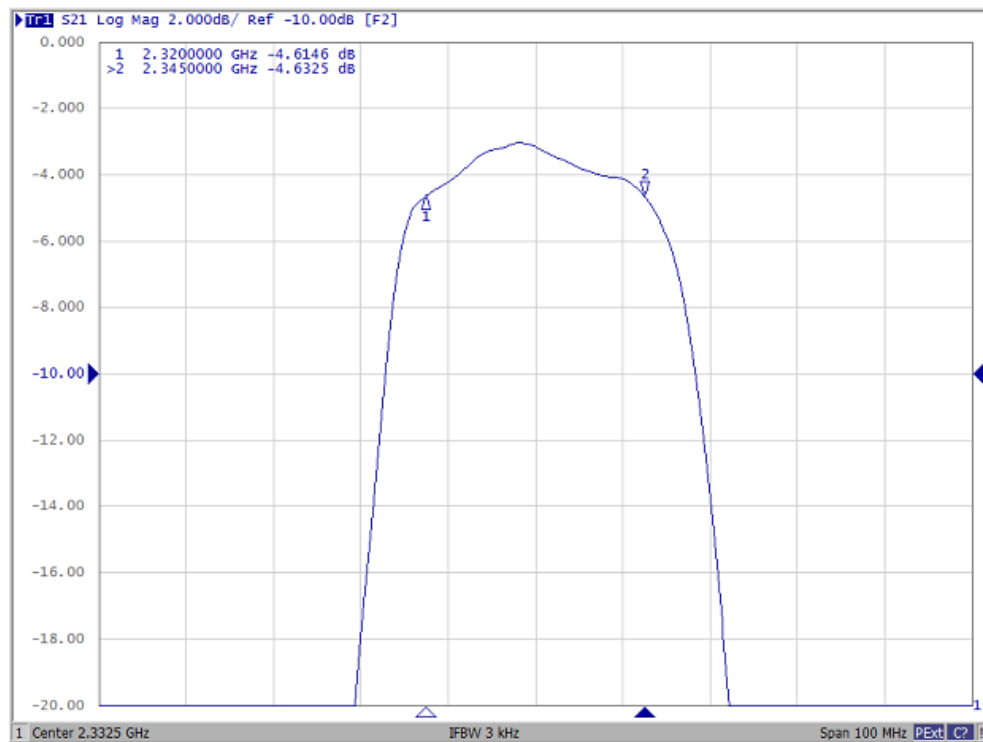
4 : Output

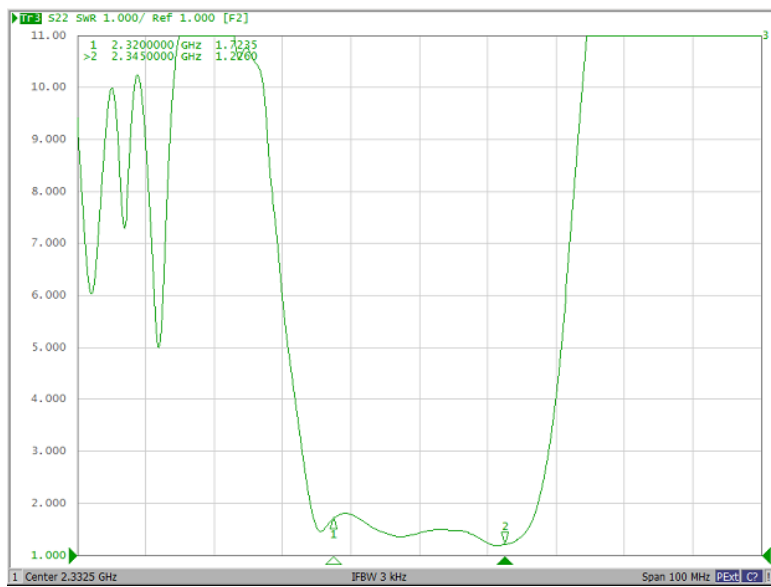
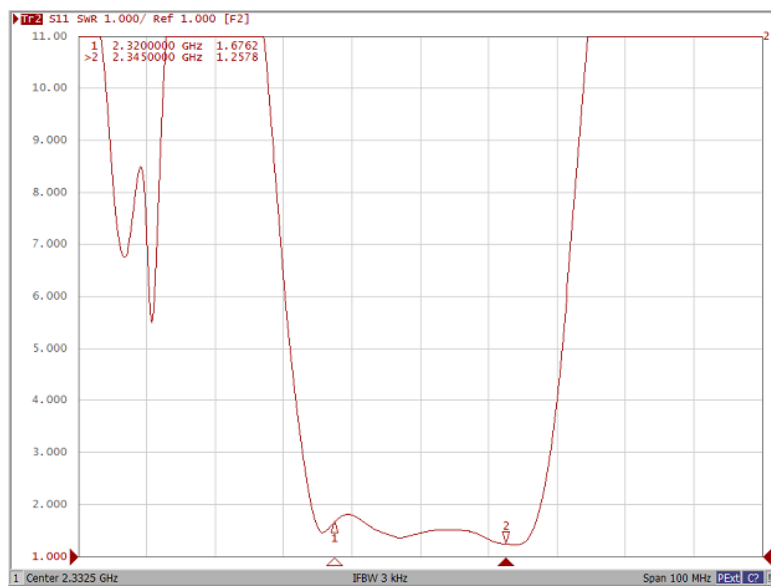
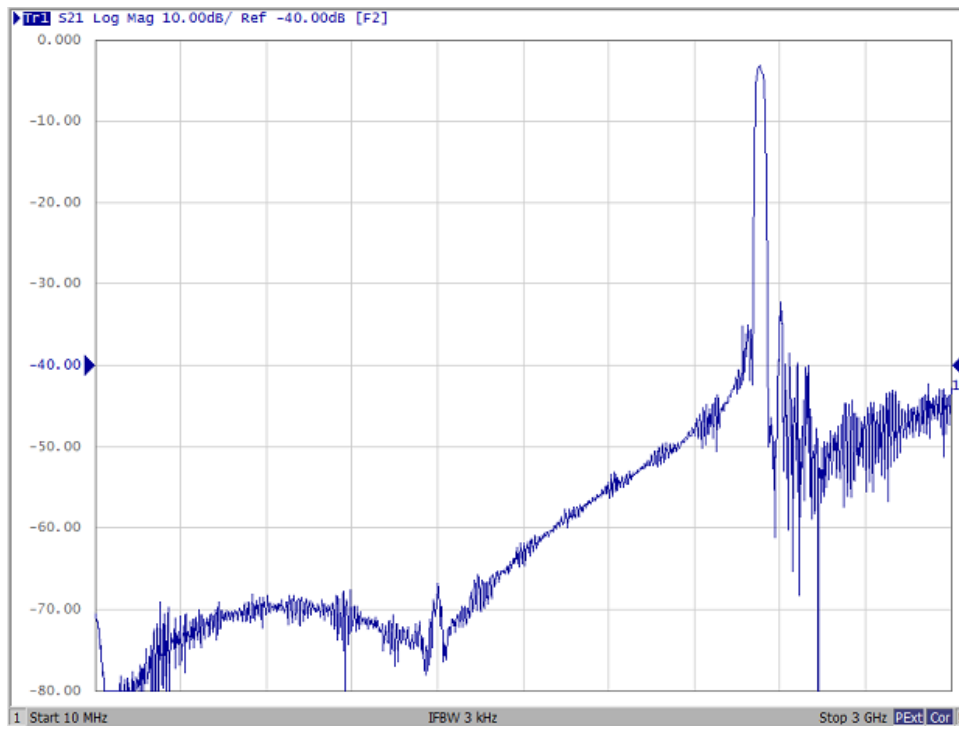
2, 3, 5 : Ground

□ : 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>

Frequency Characteristics:





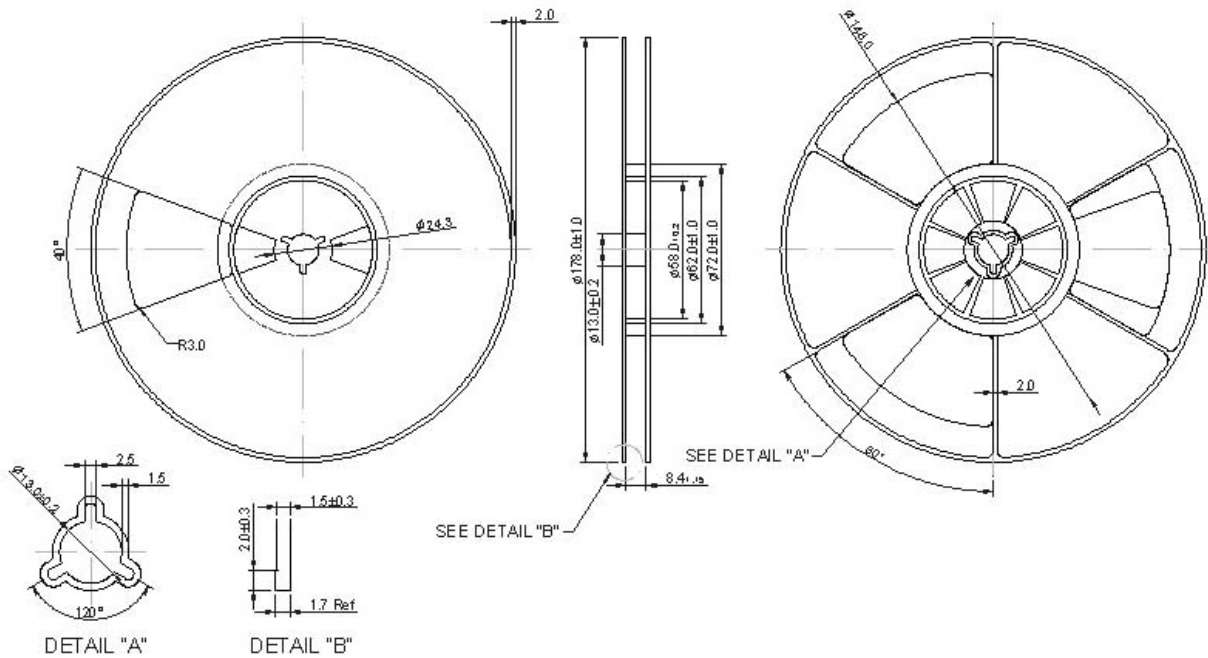
PACKING:
1. REEL DIMENSION

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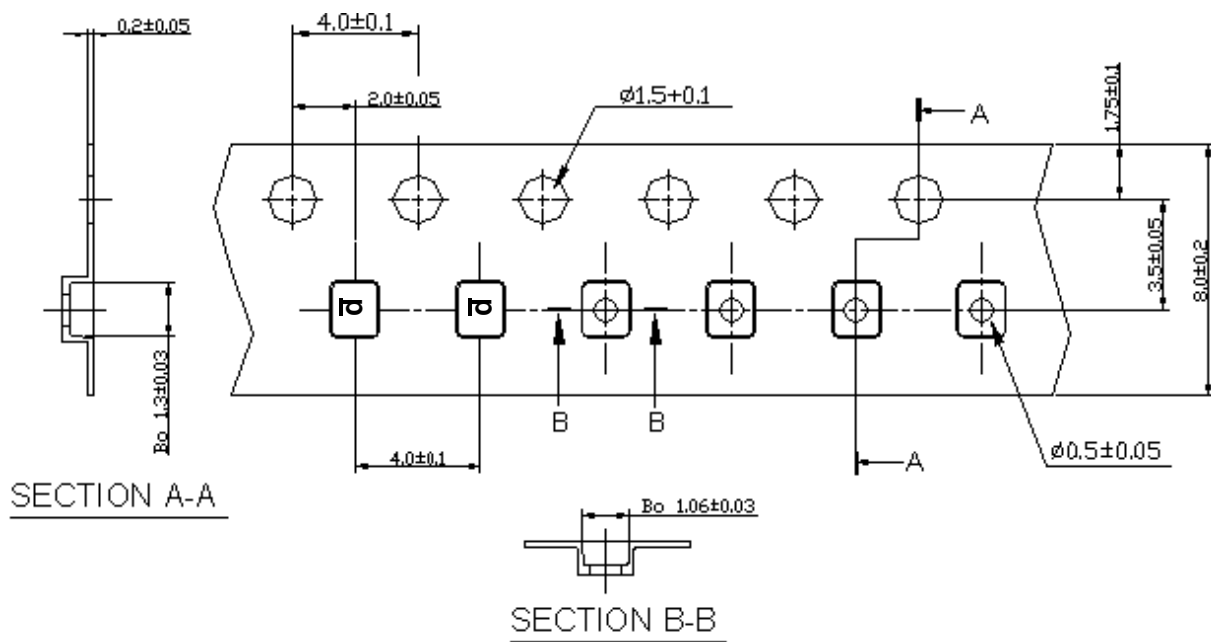
Reel Count:
7" = 5000
13" - 10,000

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2.TAPE DIMENSION



Direction of Feed



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.

