

SF2547L

**2655.0 MHz
SAW Filter**



SM1109

MAXIMUM RATING:

- Maximum Input Power: 10 dBm
- DC voltage: 0 V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: Level 3 (MSL 3)
- ESD 50V(MM) 100V(HBM)

ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50\Omega//6.9nH$ (Single)

Terminating load impedance: $Z_L = 50\Omega//12nH$ (Single)

Parameters Description	Unit	Mini.	Typical	Max.	
Center Frequency (Fo)	MHz	-	2655.0	-	
Insertion Loss	2620.0 ~ 2690.0 MHz	dB	-	2.4	3.0
Amplitude Ripple		dB_{p-p}	-	1.2	2.0
Input VSWR		-	-	2.1	2.3
Output VSWR		-	-	2.1	2.3
Attenuation					
10 ~ 2400.0 MHz	dB	25	31	-	
45.0 MHz	dB	50	80	-	
2400.0 ~ 2500.0 MHz	dB	25	33	-	
2500.0 ~ 2570.0 MHz	dB	33	38	-	
2570.0 ~ 2600.0 MHz	dB	2	4	-	
2775.0 ~ 6000.0 MHz	dB	25	33	-	
7620.0 ~ 7830.0 MHz	dB	15	28	-	
7860.0 ~ 8000.0 MHz	dB	15	31	-	

Notes : (1) With Matching Network .

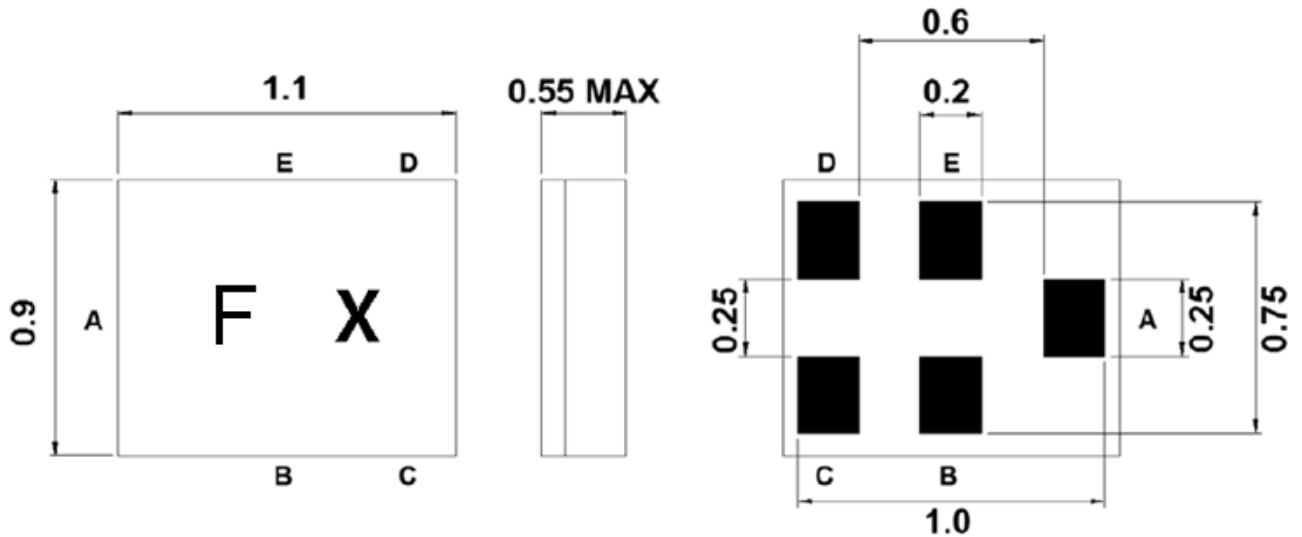


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.

OUTLINE DRAWING:



Pin Description	
B, C, E	Ground
A	Input
D	Output

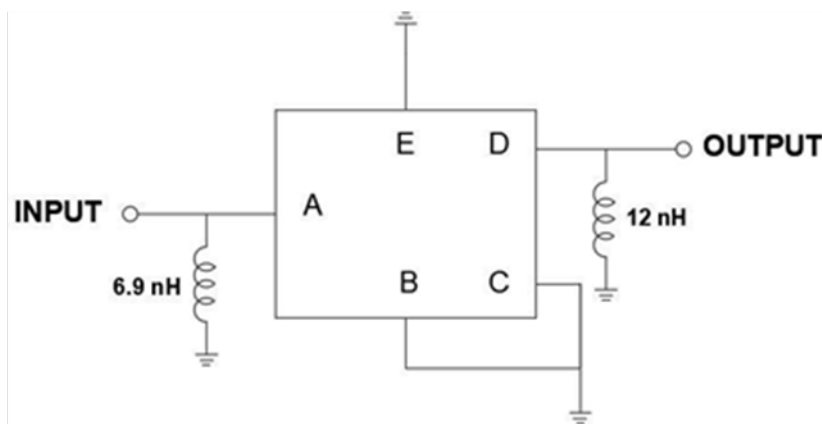
Marking Descriptions:

F : Series Number

X : Year/Month Code (Follow the table)

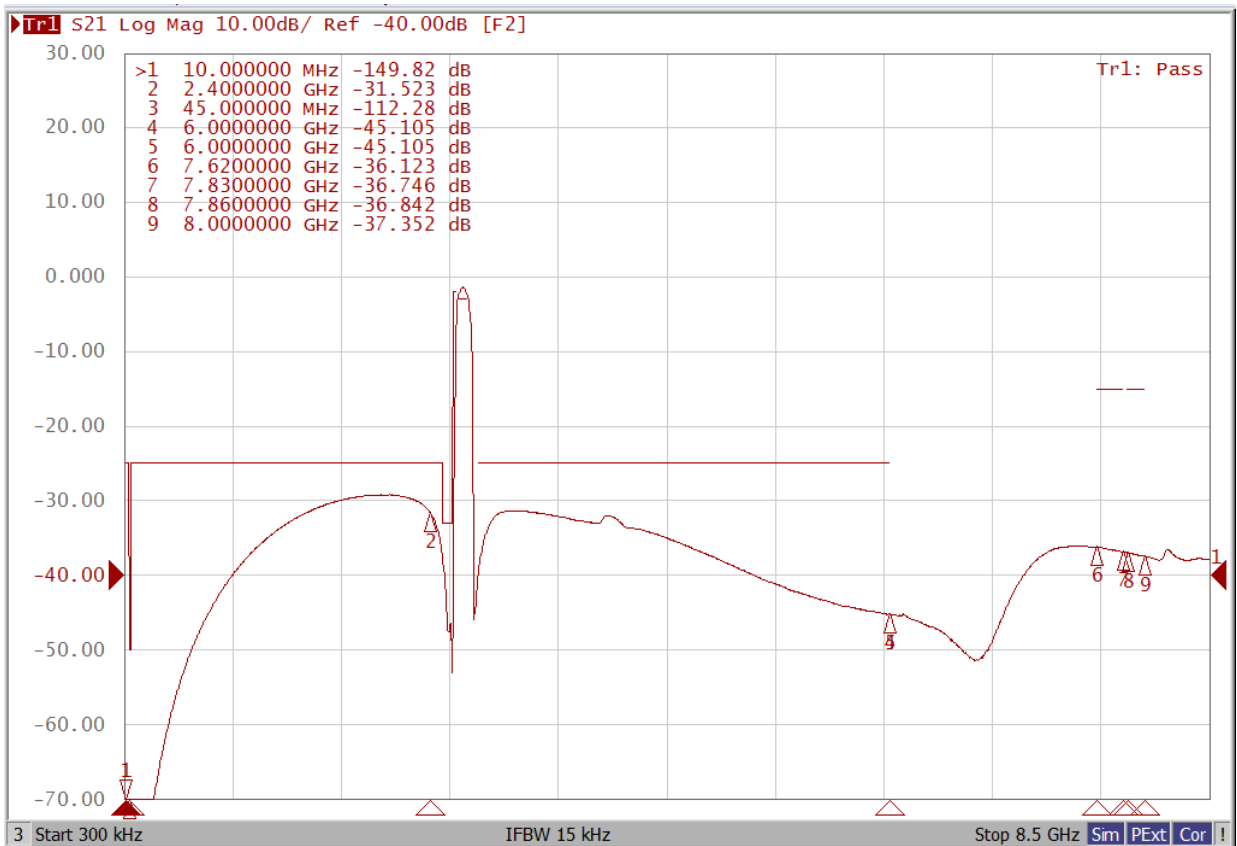
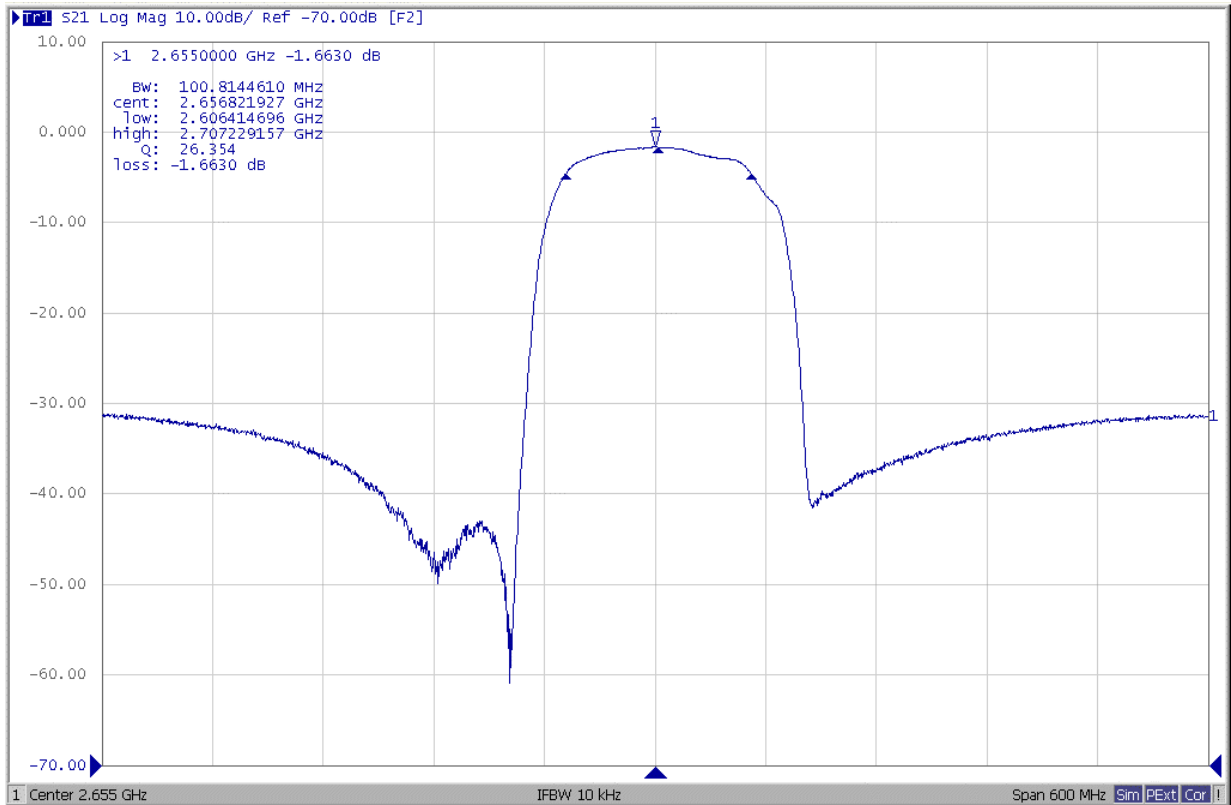
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>i</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<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>
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	∇	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

MEASUREMENT CIRCUIT:



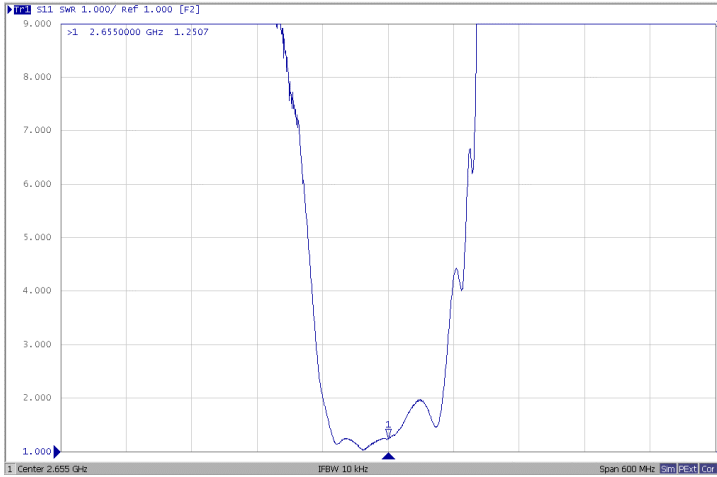
FREQUENCY CHARACTERISTICS:

Frequency Response

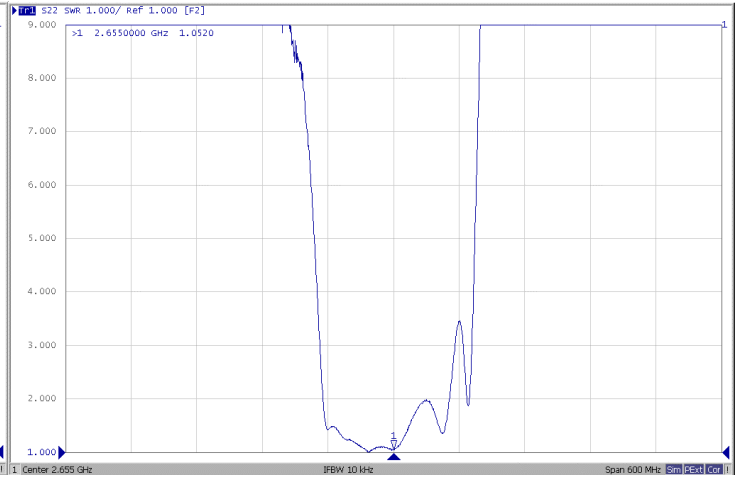


VSWR

S11

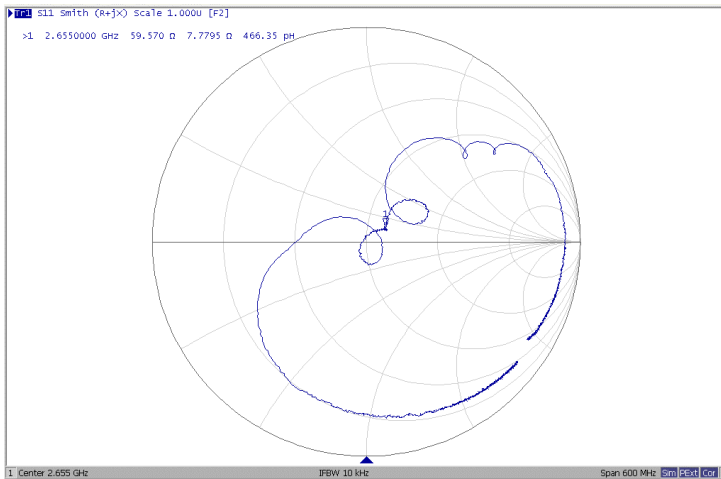


S22

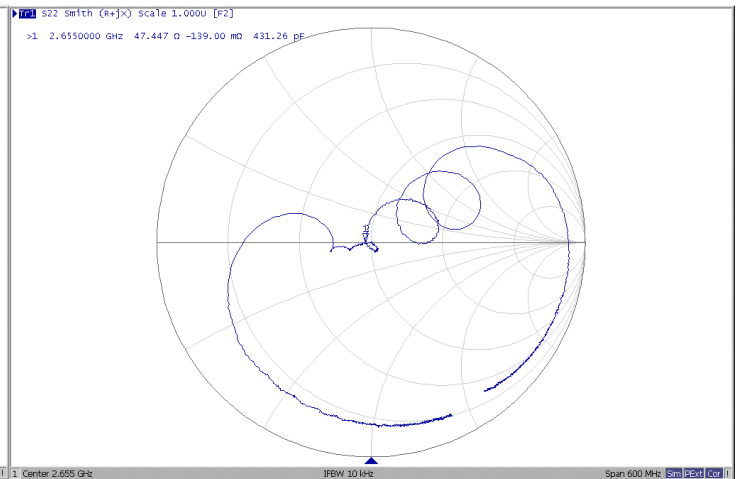


Smith Chart

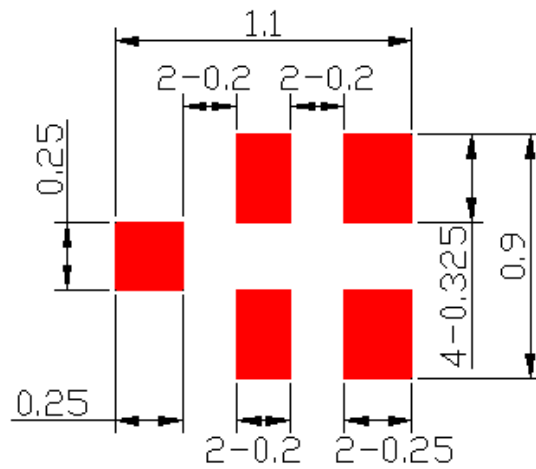
S11



S22



PCB Footprint:

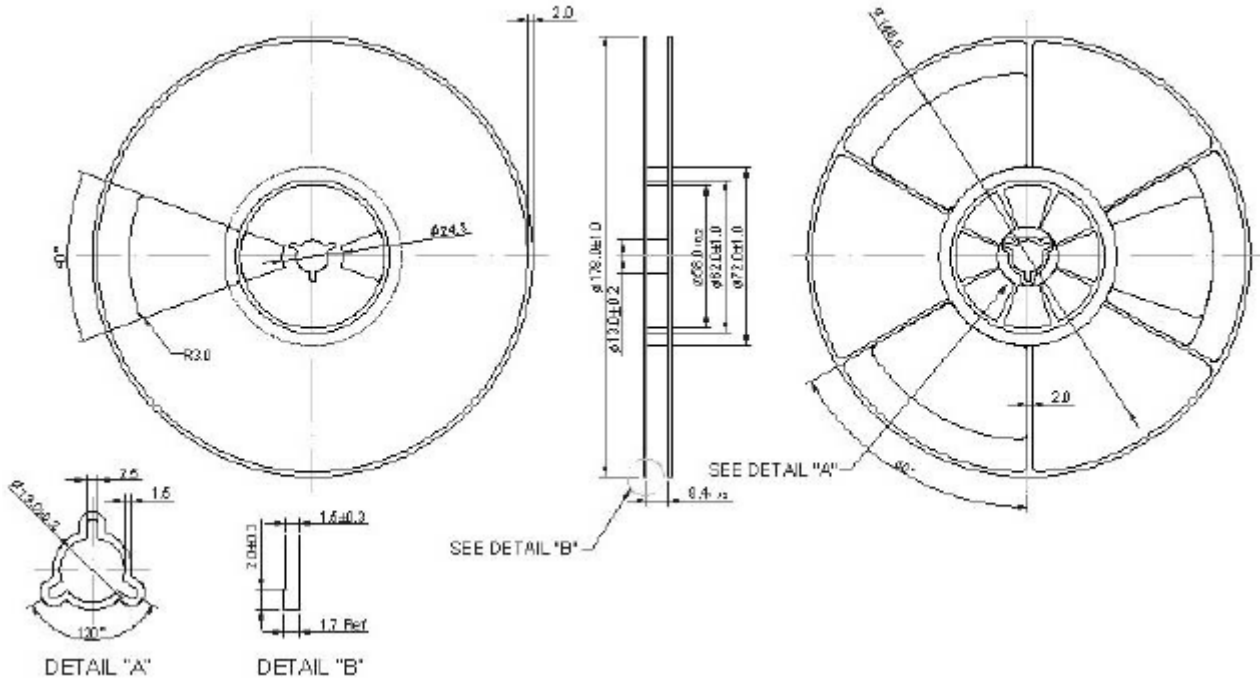


■ : Land Pattern

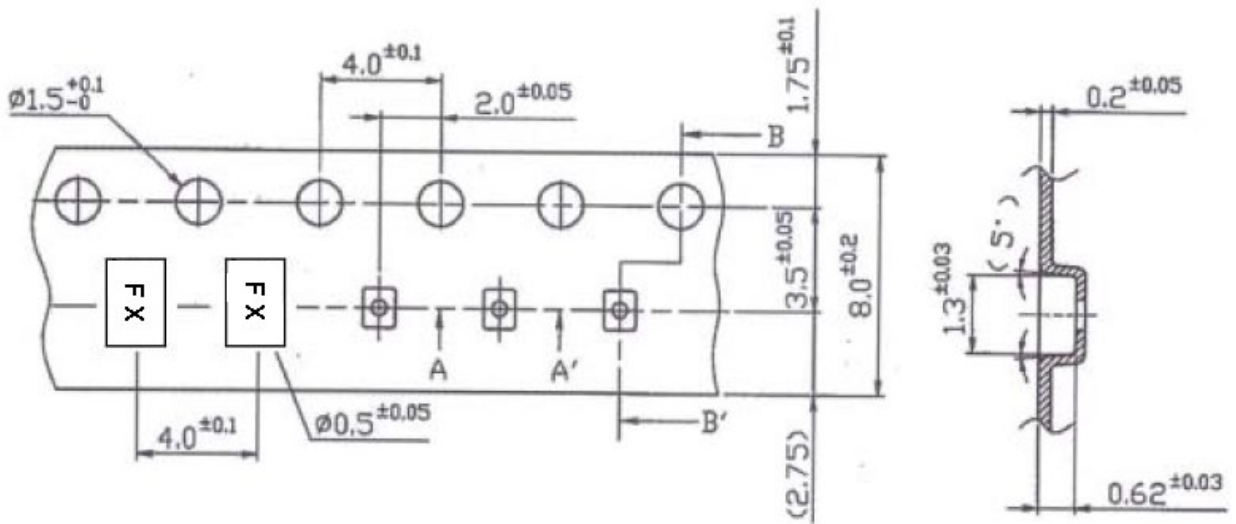
Unit: mm

**PACKING:
REEL DIMENSION**

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



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.

