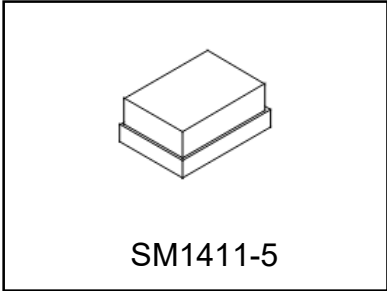


**SF2708K-1**

**2491.75 MHz  
SAW Filter**



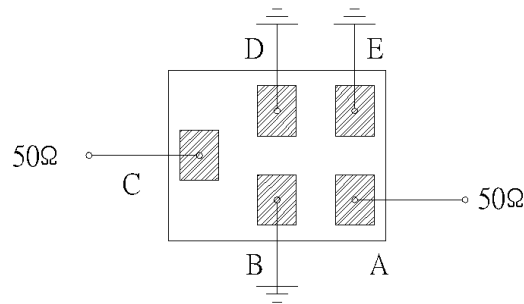
**MAXIMUM RATING:**

- Input Power Level: 7 dB<sub>m</sub>
- Input Power Level: 18 dBm(out of band rejection)
- DC voltage: 3 V
- Operating Temperature: -30°C to +80°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: Level 2a(**MSL 2a**)
- HBM level = 500V/MM level = 200V/CDM level = 1000V

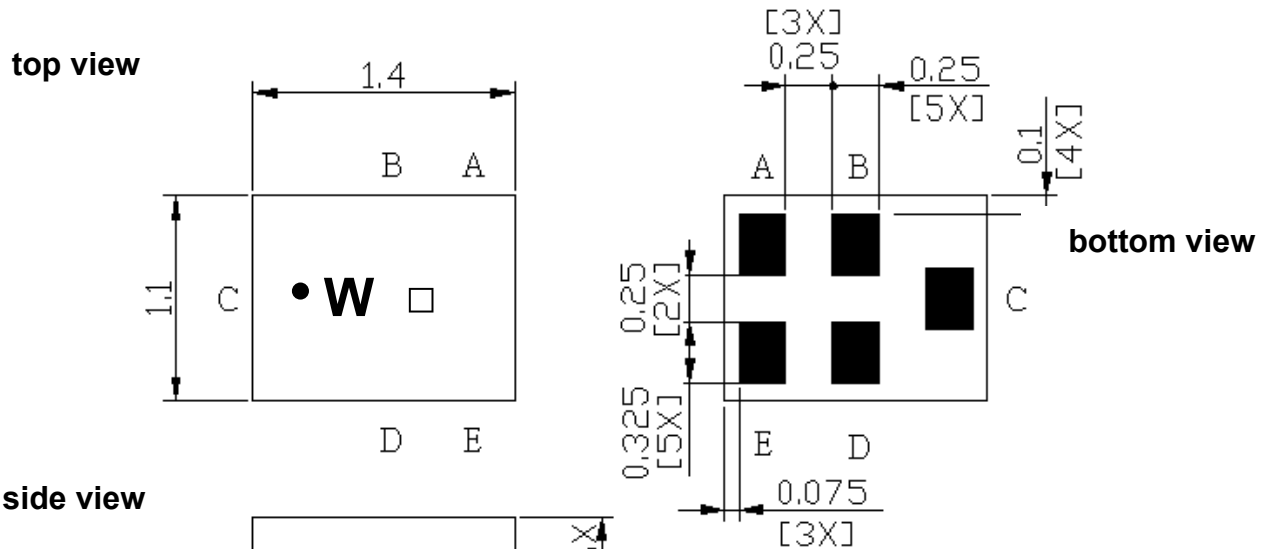
**ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Typ.	Max.
<b>Center frequency</b> <b>F<sub>c</sub></b>	MHz	-	2491.75	-
<b>Insertion Loss</b> (2483.5~2500 MHz)at 25 °C <b>IL</b>	dB	-	3.1	3.25
<b>Insertion Loss</b> (2483.5~2500 MHz) <b>IL</b>	dB	-	3.1	4.25
<b>Amplitude Variation</b> (2483.5~2500) (over any 1.23 MHz span)	dB	-	0.3	1.0
<b>Phase Linearity</b> (2483.5~2500 MHz) (over any 1.23 MHz span)	deg(rms)	-	0.1	2.5
<b>Input/Output VSWR</b> (2483.5~2500 MHz)	-	-	1.9	-
<b>Attenuation</b> (Reference level from 0 dB)				
1610 ~ 1626.5 MHz	dB	33	58	-
2033 ~ 2051 MHz	dB	28	68	-
2259 ~ 2275 MHz	dB	23	54	-
2400 ~ 2440 MHz	dB	13	42	-
2440 ~ 2450 MHz	dB	12	37	-
2570 ~ 2600 MHz	dB	15	62	-
<b>Temperature Coefficient of Frequency</b>	Ppm/°C	-	-36	-

**MEASUREMENT CIRCUIT:**



**OUTLINE DRAWING:**

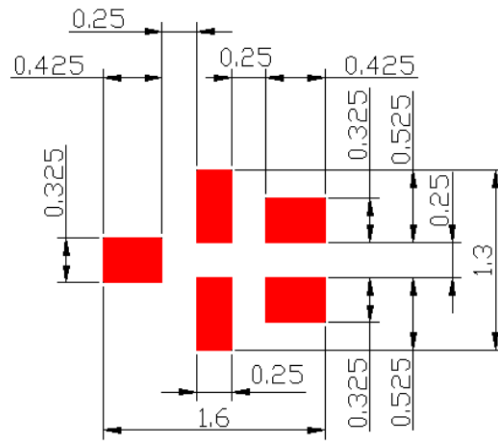



**C: Input**  
**A: Output**  
**B, D, E: Ground**  
**Unit: mm**

□ : Year/Month Code (Follow the table)

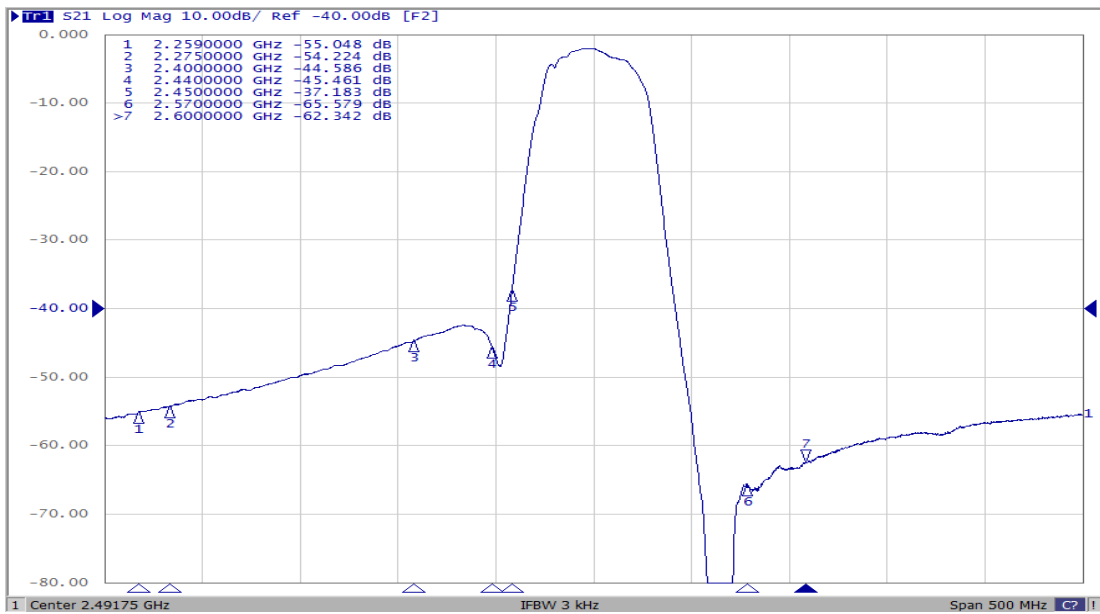
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R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

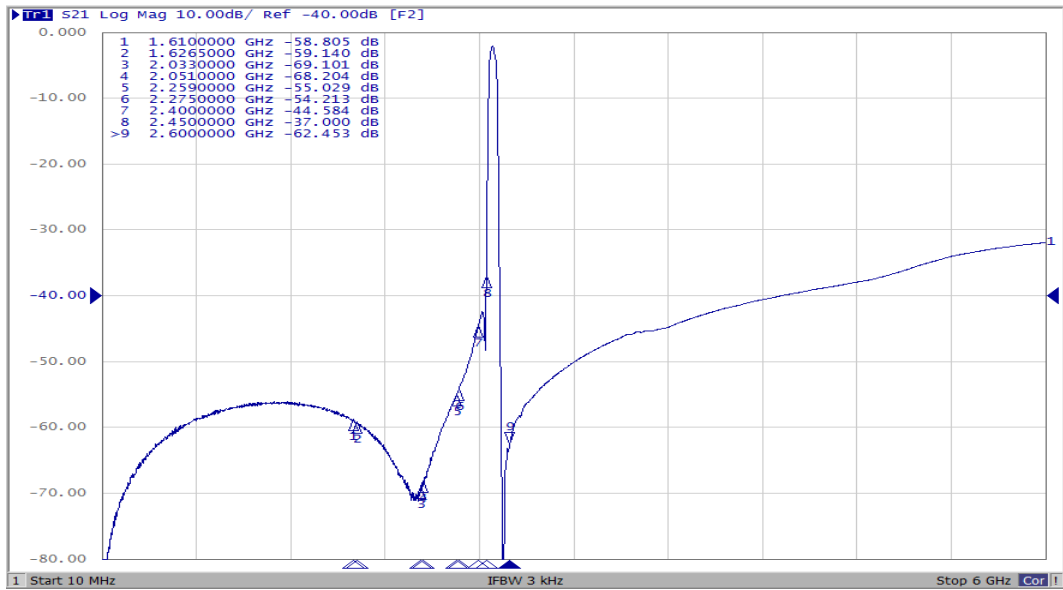
# PCB Footprint:



 : Land Pattern  
Unit : mm

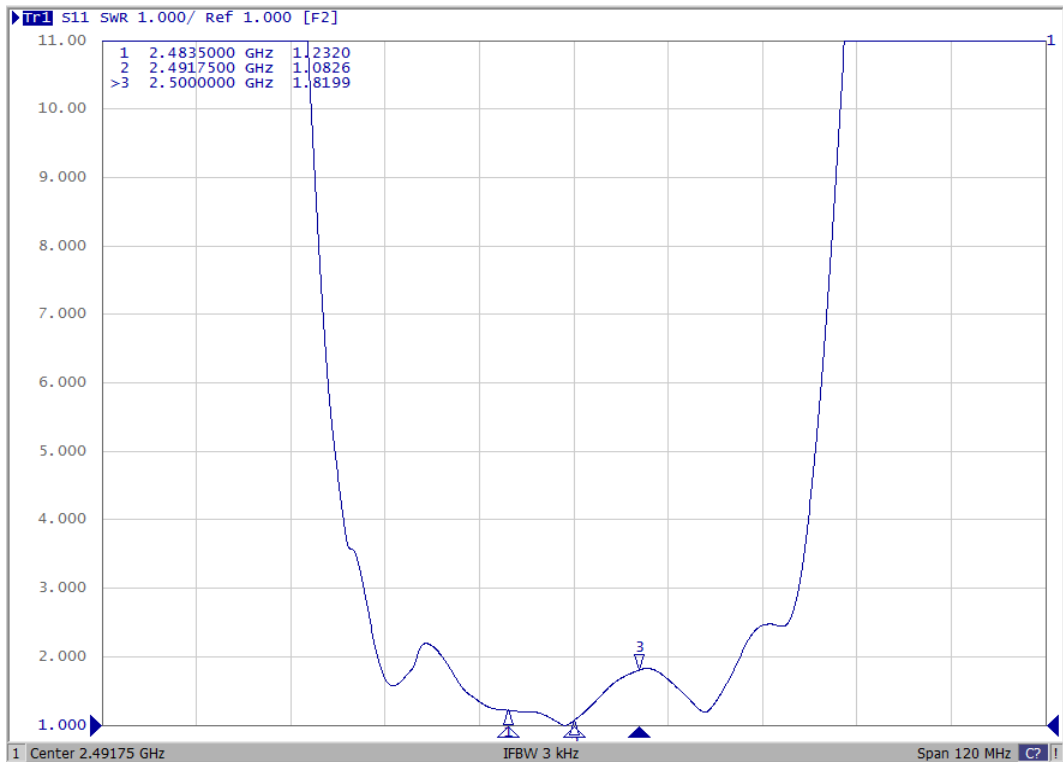
# Frequency Characteristics:



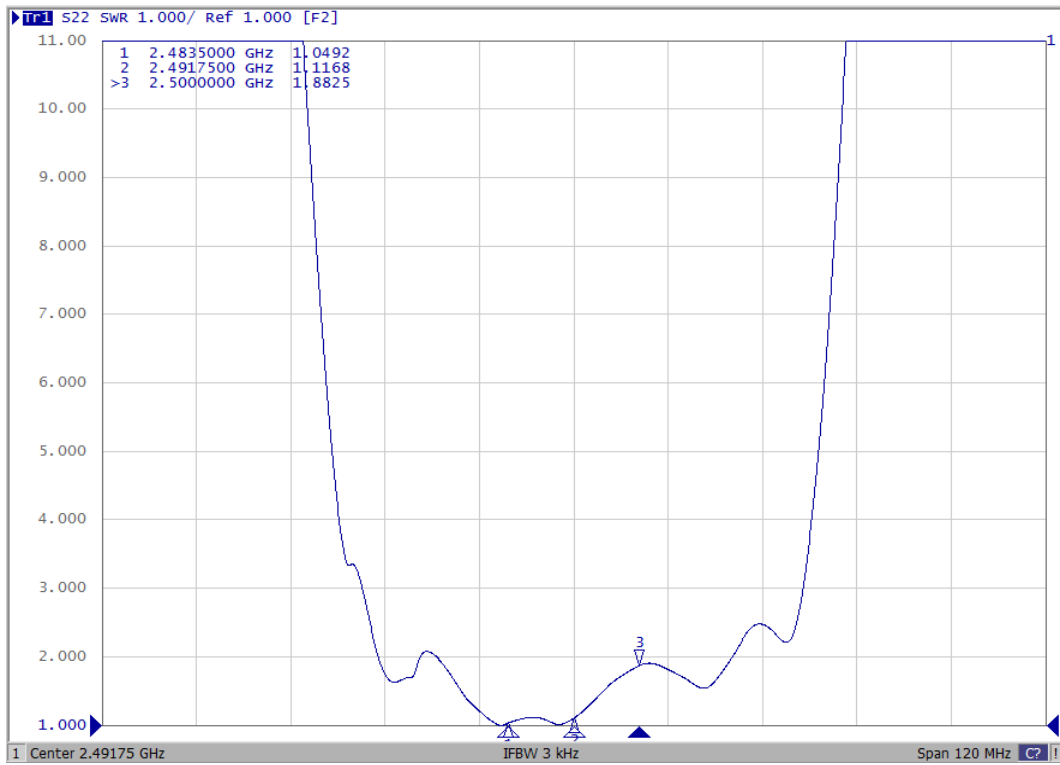


**Reflection Functions:**

**S11**



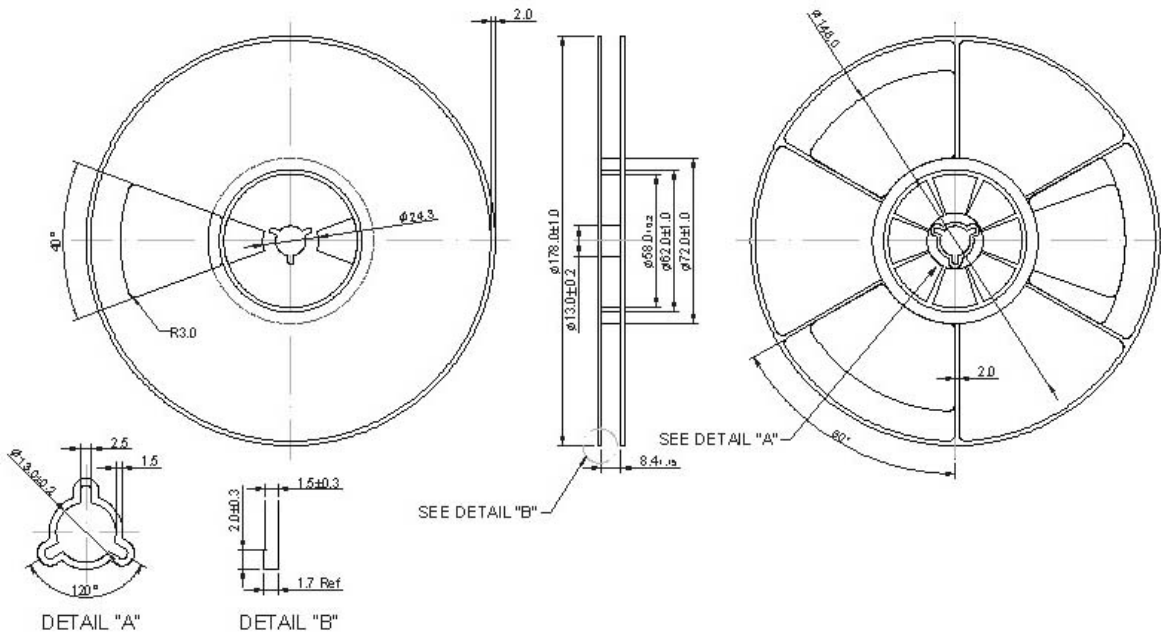
## S22



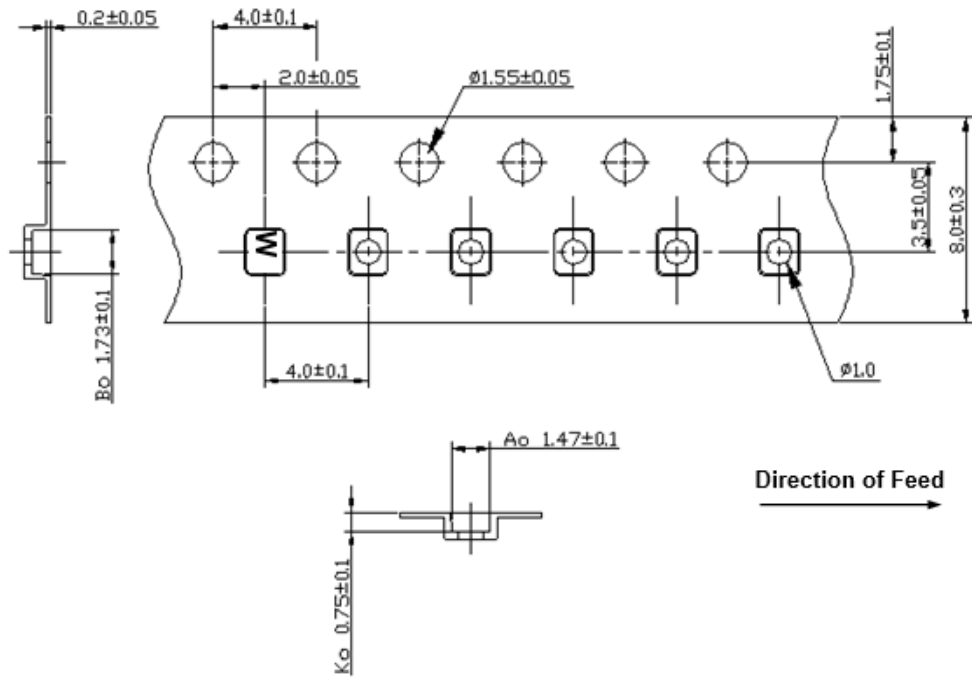
### PACKING:

Reel Count: 7" = 3000

#### 1. REEL DIMENSION

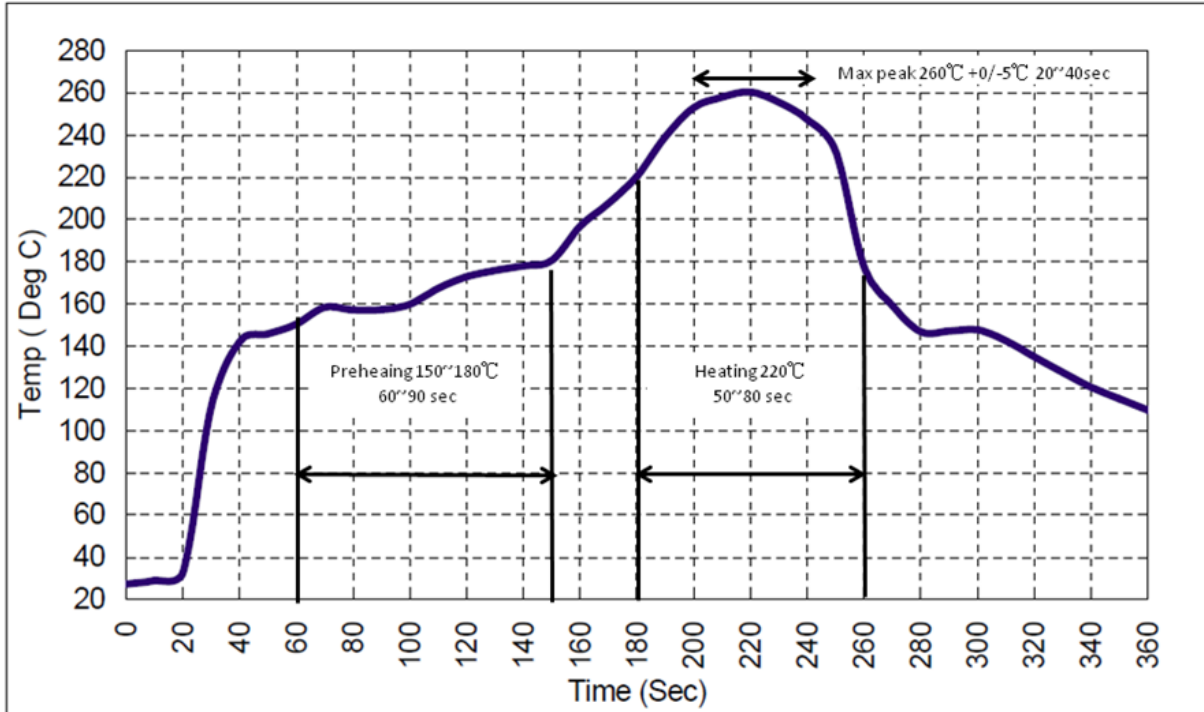


## 2. TAPE DIMENSION



### 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. This component was always RoHS compliant from the first date of manufacture.