



RFM Integrated Device, Inc.

## PRODUCT SPECIFICATION

Part Number: SF2706K-1

Description:  
FILTER, SAW, 2185 MHz, BW  
30 MHz, IL 2.5 dB

**Preliminary**

## A. MAXIMUM RATING:

1. Input Power Level: 10 dBm  
Input Power Level: 18 dB<sub>m</sub>(out of band rejection)
2. DC Voltage : 3V
3. Operating Temperature: -30°C to +105°C
4. Storage Temperature: -40°C to +105°C
5. HBM level = 500V/MM level = 200V/CDM level = 1000V



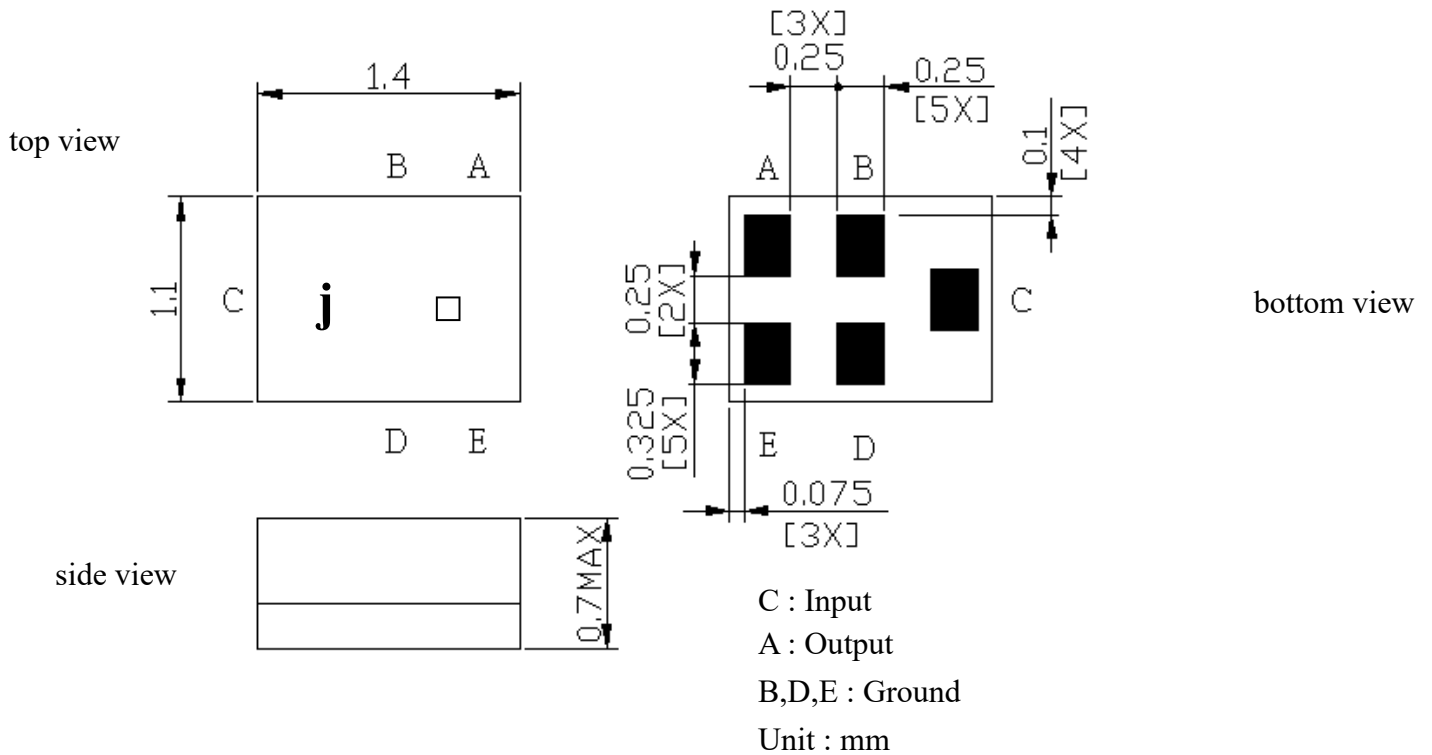
## B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance :  $Z_s = 50 \Omega$

Terminating load impedance :  $Z_L = 50 \Omega$

Item	Unit	Min.	Type.	Max.	Note
<b>Center Frequency</b> <b>Fc</b>	MHz	-	2185	-	-
<b>Insertion Loss</b> (2170~2200 MHz) at 25°C <b>IL</b>	dB	-	2	2.5	-
<b>Max. Insertion Loss</b> (2170~2200 MHz) <b>IL</b>	dB	-	2	3.5	-
<b>Amplitude ripple</b> (2170~2200 MHz)	dB	-	0.5	2.3	-
<b>VSWR</b> (2170~2200 MHz)		-	1.6	2.0	-
<b>Attenuation</b> (Reference level from 0 dB)					
0.1~1980 MHz	dB	29	30.5	-	-
1980~2010 Hz	dB	32	39.4	-	-
2010~2110 Hz	dB	20	32	-	-
2260~2300 MHz	dB	20	27	-	-
2300~3500 Hz	dB	29	34	-	-
3500~6000 Hz	dB	20	23	-	-
<b>Temperature Coefficient of Frequency</b>	ppm/°C	-	-36	-	-

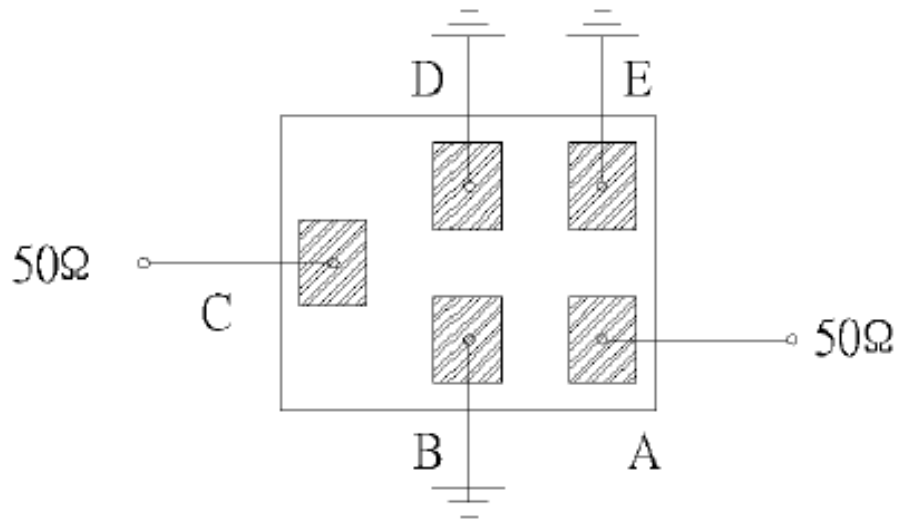
**C.OUTLINE DRAWING:**



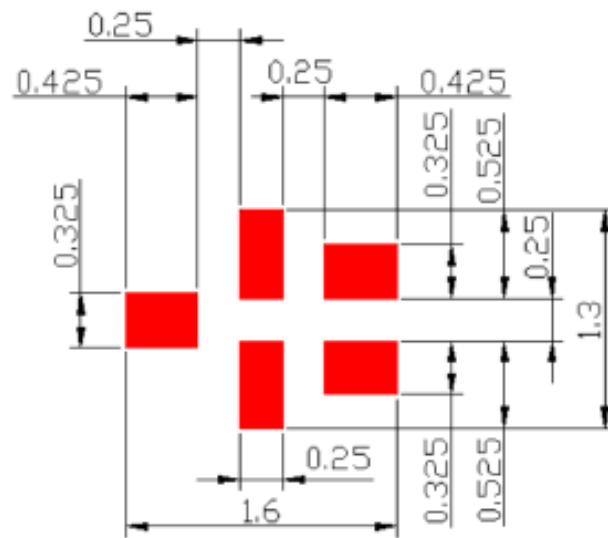
**□ : Year/Month Code (Follow the table) (8-year cycle)**


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	A	B	C	D	E	F	G	H	J	K	L	M
2026	N	P	Q	R	S	T	U	V	W	X	Y	Z
2027	a	b	c	d	e	f	g	h	j	k	l	m
2028	n	p	q	r	s	t	u	v	w	x	y	z

**D. MEASUREMENT CIRCUIT:**

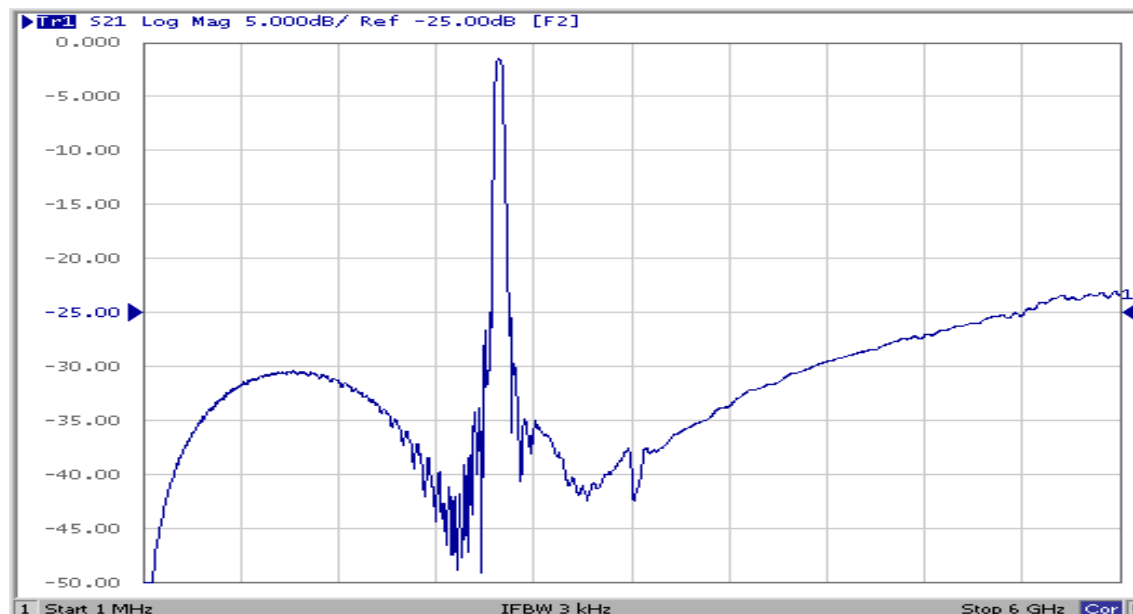
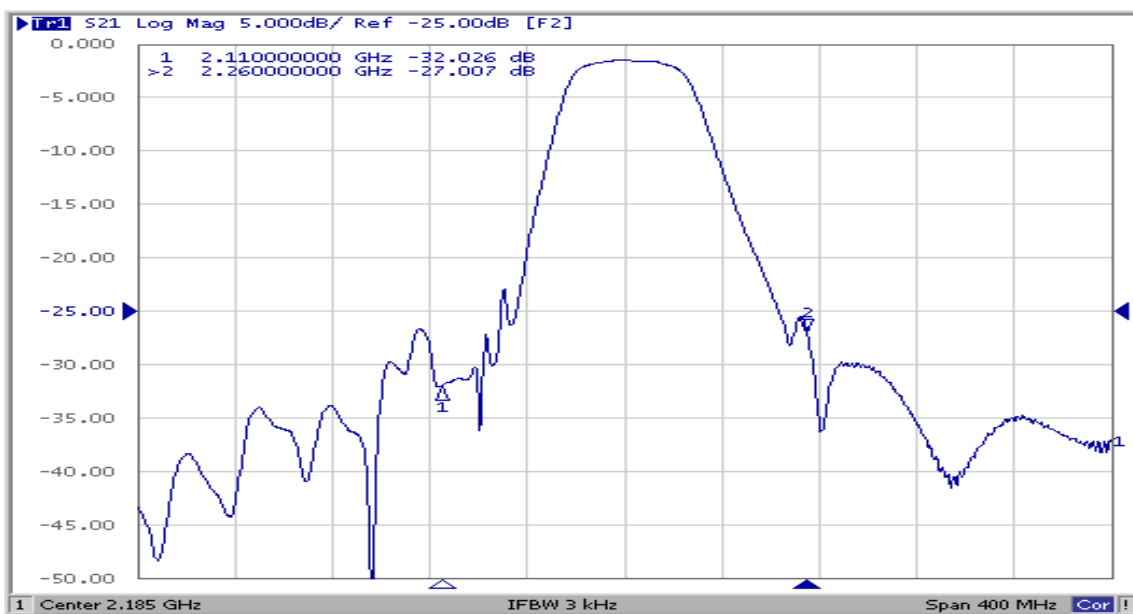
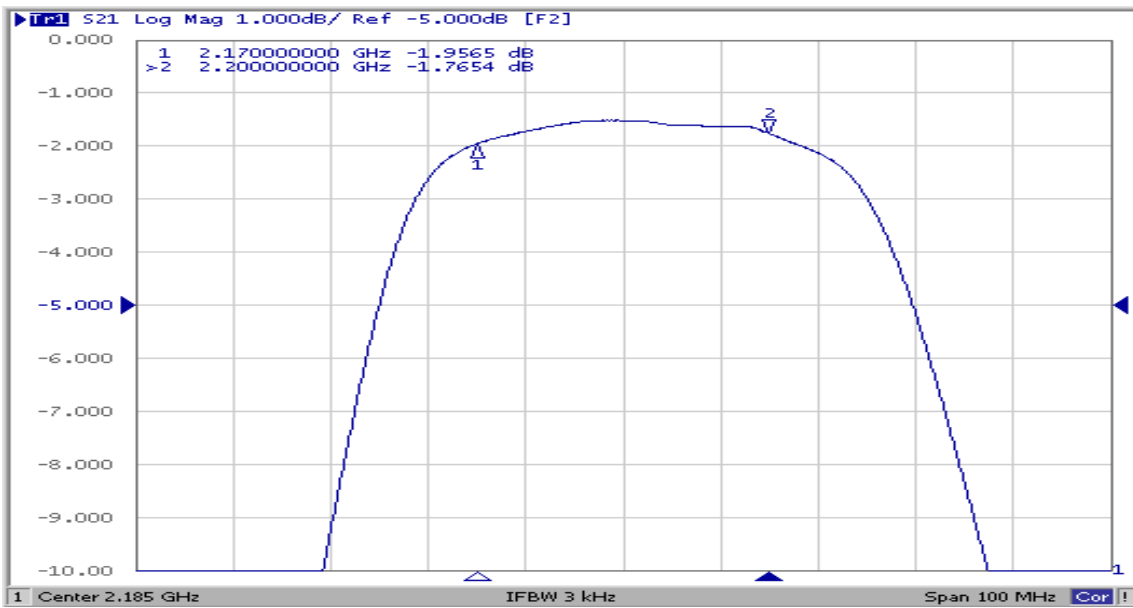


**E. PCB Footprint:**



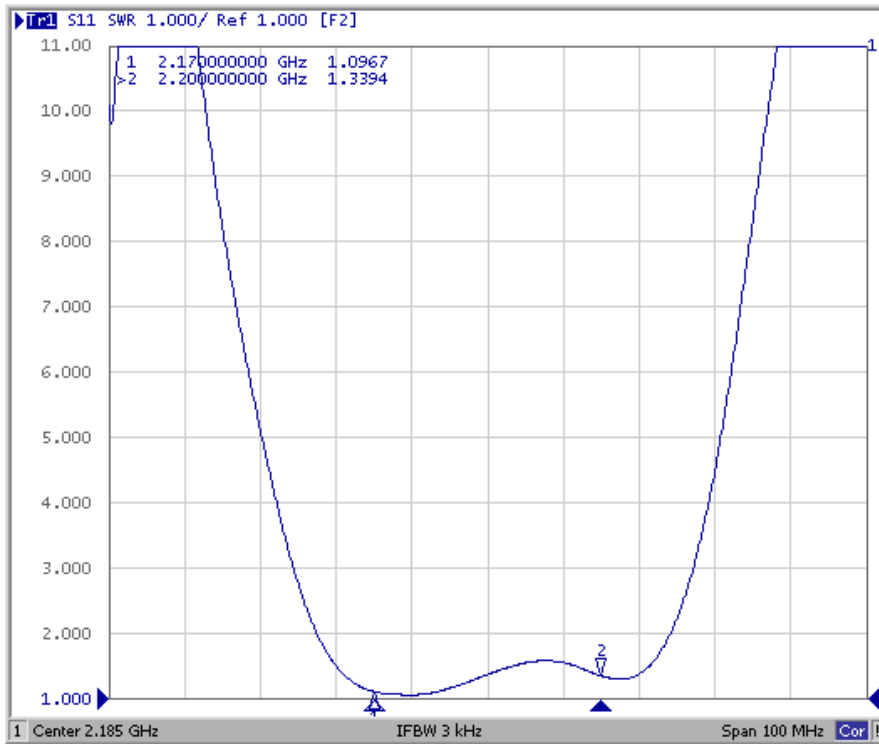
 : Land Pattern  
Unit : mm

## F. Frequency Characteristics :

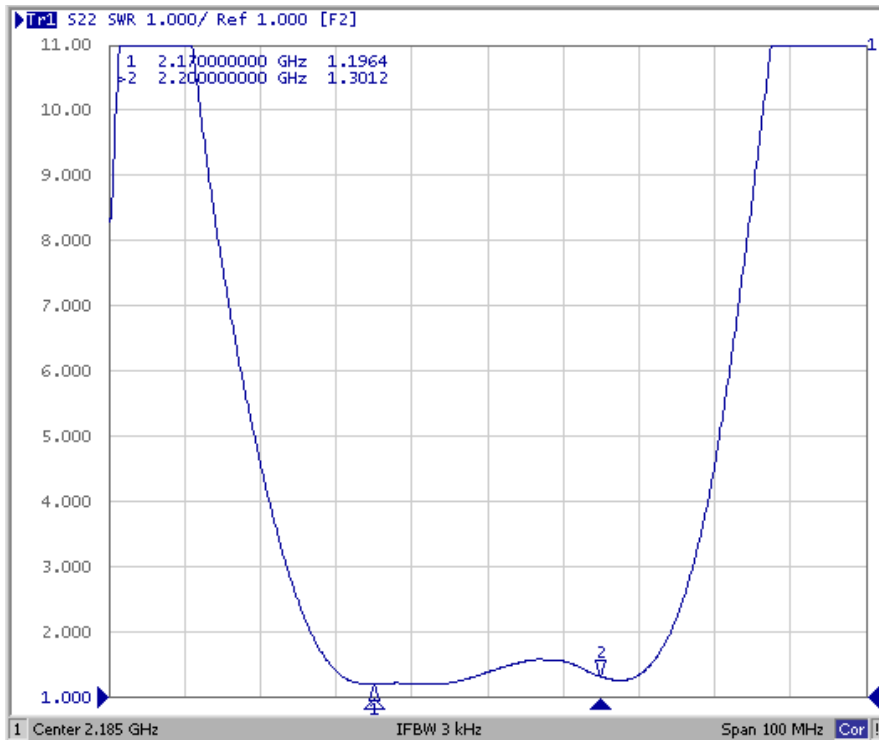


# Reflection Functions :

## S11



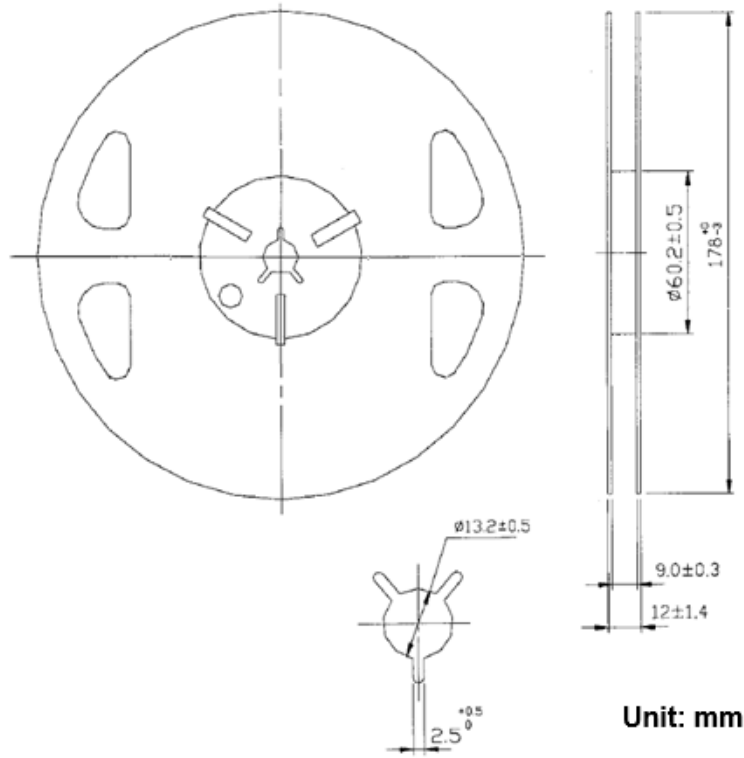
## S22



**G. PACKING:**

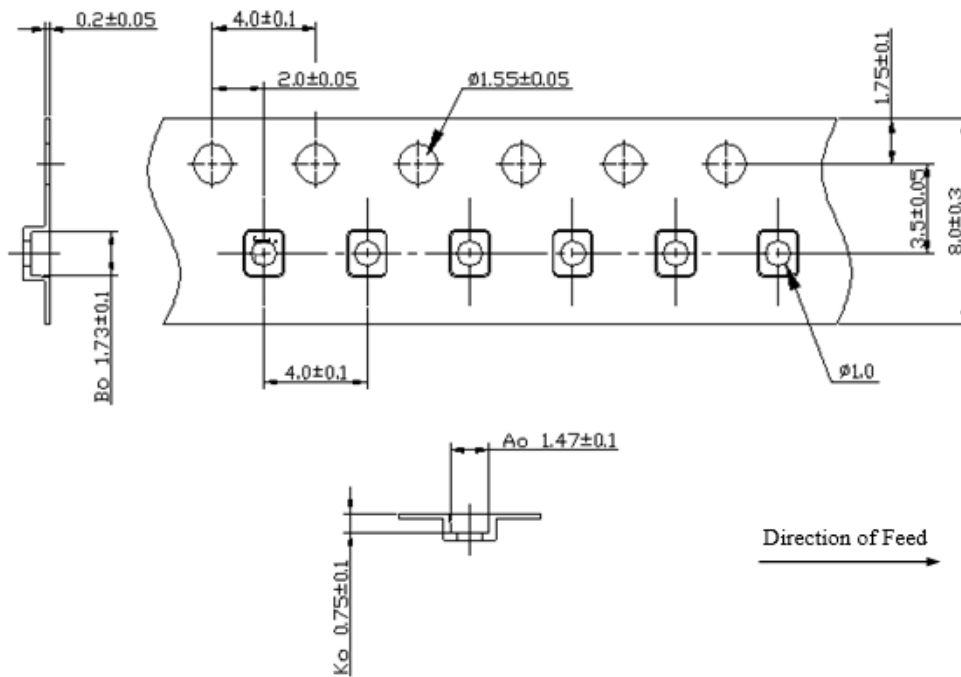
Reel Count:  
7" = 3000

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



### H. 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.

