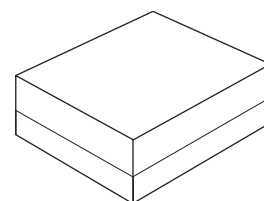


**SF2721K**

**915 MHz  
SAW Filter**



SM1411-5

**MAXIMUM RATING:**

- Input Power Level: 10 dBm
- DC Voltage : 3V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +125°C
- Moisture Sensitivity Level: Level 3 (MSL 3)
- ESD 100V(MM) 200V(HBM)

**ELECTRICAL CHARACTERISTICS:**

Terminating source impedance :  $Z_s = 50 \Omega$

Terminating load impedance :  $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.	Note
<b>Center Frequency</b> <b>Fc</b>	MHz	-	915	-	-
<b>Insertion Loss</b> (902~928 MHz) <b>IL</b>	dB	-	2.0	3.0	-
<b>Amplitude ripple</b> (902~928 MHz)	dB	-	0.8	1.5	-
<b>VSWR</b> (902~928 MHz)		-	1.6	2	-
<b>Group Delay Deviation</b> (902~928 MHz)	ns	-	11	50	-
<b>Attenuation</b> (reference level from 0 dB)					
10~800 MHz	dB	42	46	-	-
800~845 MHz	dB	40	44	-	-
845~869 MHz	dB	33	38	-	-
869~894 MHz	dB	7	9.5		
970~1005 MHz	dB	35	40	-	-
1005~1110 MHz	dB	38	43	-	-
1110~2000 MHz	dB	30	40	-	-
2000~3000 MHz	dB	25	35	-	-
3000~6000 MHz	dB	20	30	-	-
<b>Temperature Coefficient of Frequency</b>	ppm/°C	-	-36	-	-



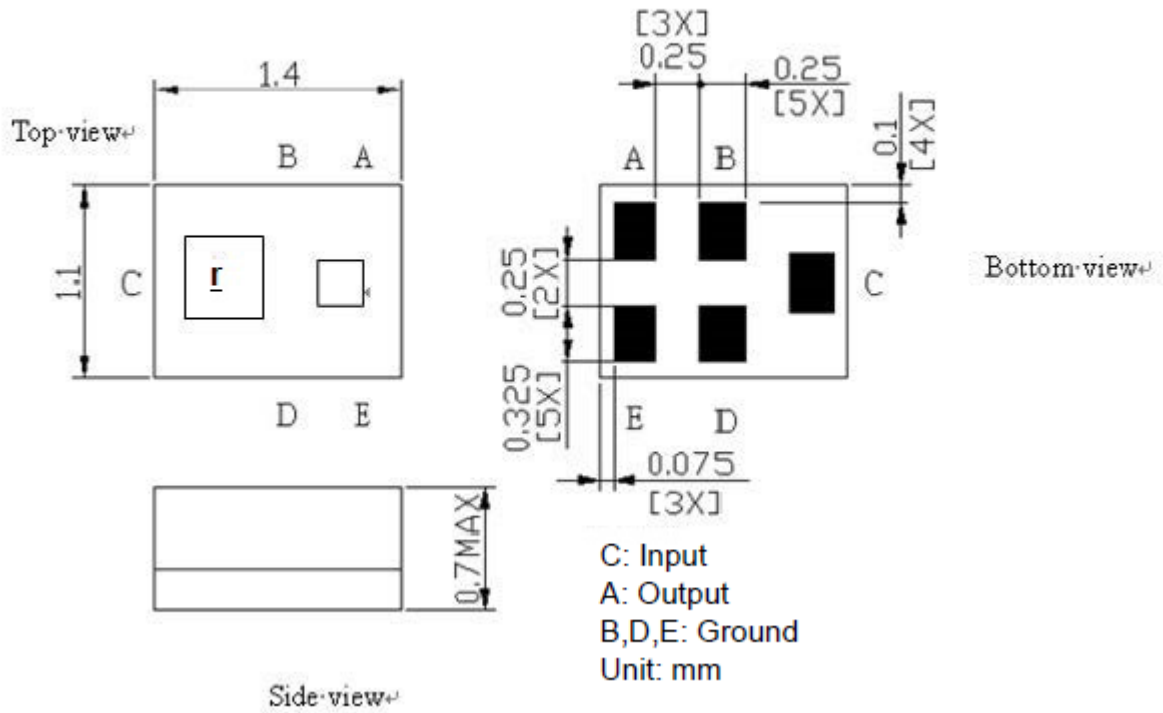
**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

**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:**

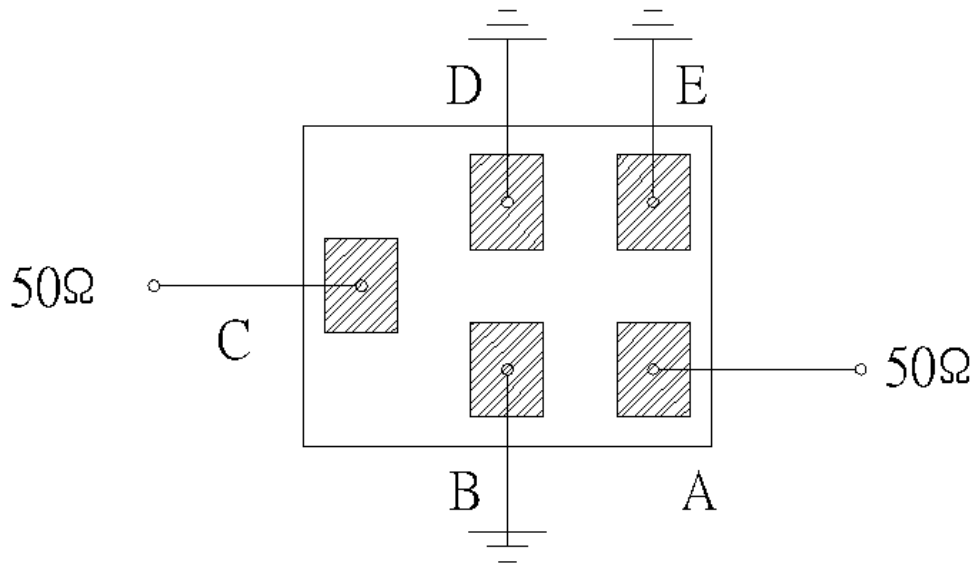
$\underline{r}$  - Number Product Code       $\square_k$  - Year/Month



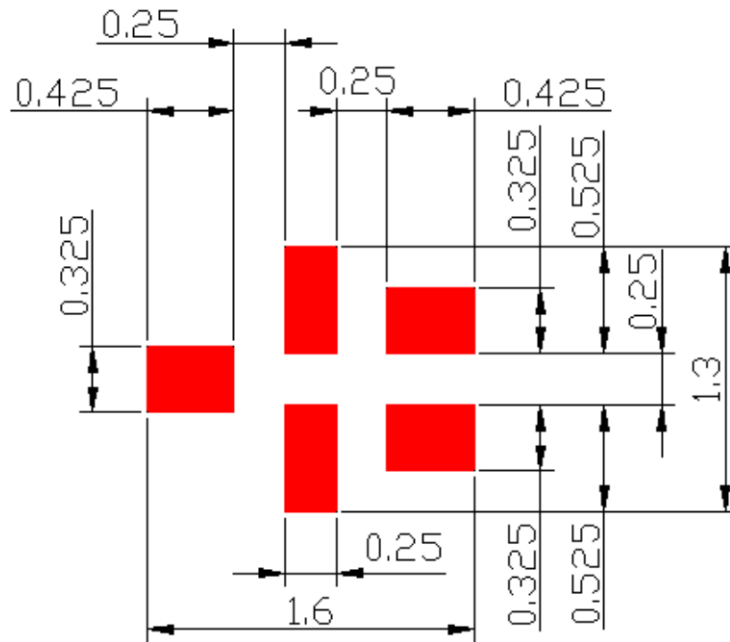
$\square_k$  : Year/Month Code (Follow the table)


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:**

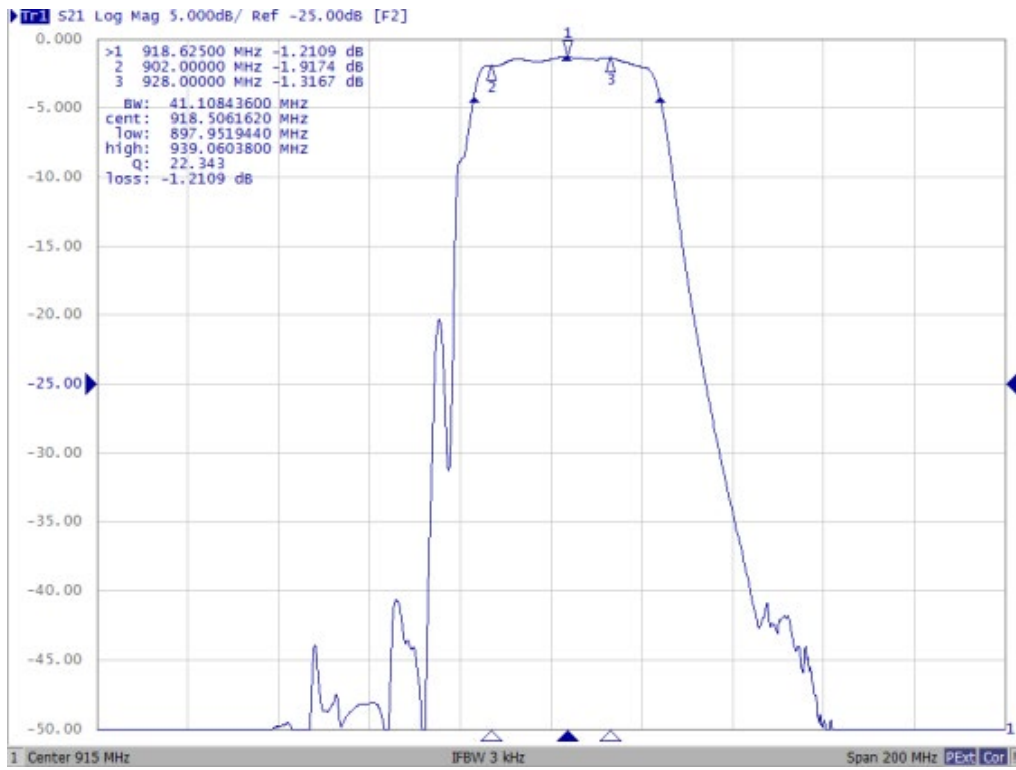


**PCB Footprint:**



 : Land Pattern  
Unit : mm

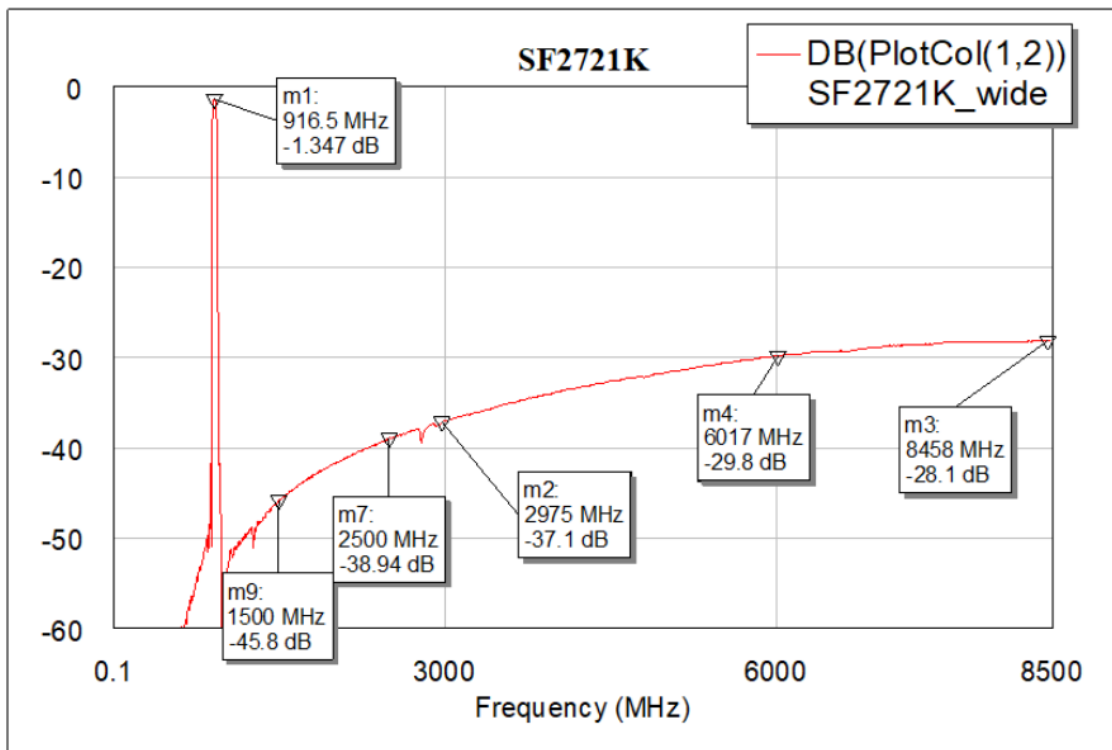
# Frequency Characteristics: S21\_span 200MHz



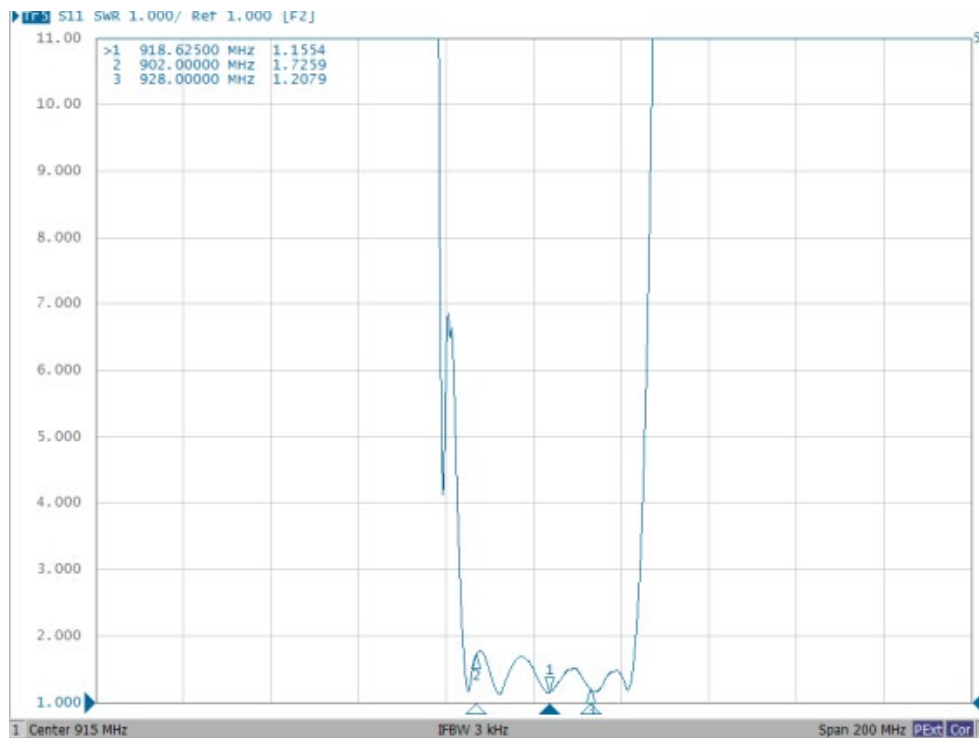
# S21\_span 100MHz

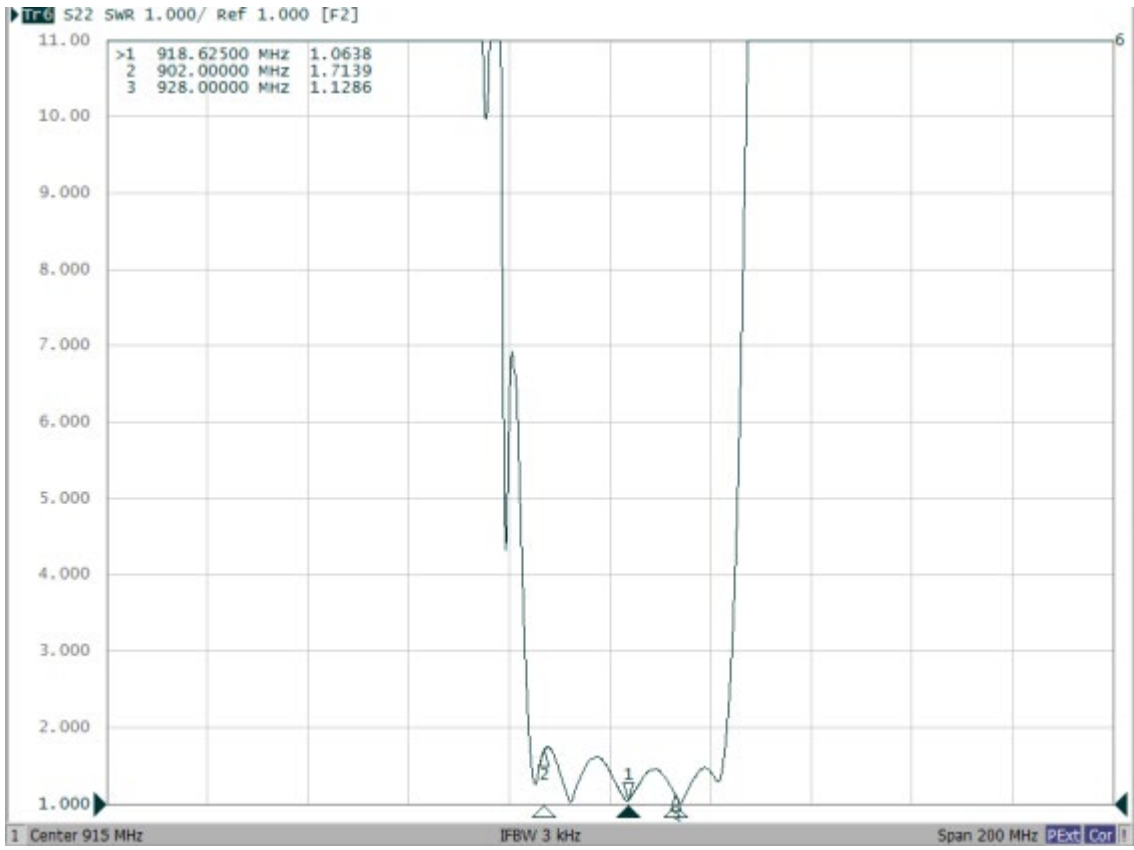


## S21\_span 8.5GHz



## Reflection Functions: S11/S22\_span 200MHz







## 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.

