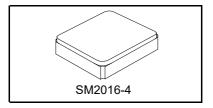


Preliminary



SF2209H

2017.5 MHz SAW Filter



MAXIMUM RATING:

• Input Power Level: 10 dB_m

• DC voltage: 5 V

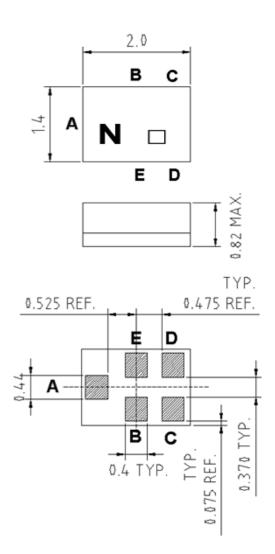
Operating Temperature: -30°C to +85°C
Storage Temperature: -40°C to +85°C
Moisture Sensitivity Level: Level 1(MSL1)

ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single-ended): $Z_S=50\Omega$ Terminating load impedance (single-ended): $Z_L=50\Omega$

Item	Unit	Min.	Type.	Max.					
Center frequency	Fc	MHz	-	2017.5	-				
Insertion Loss (2010~2025 MHz)	IL	dB	-	1.6	2.5				
Amplitude Ripple (2010~2025 MHz)		dB	-	0.3	1.5				
VSWR (2010~2025 MHz)		-	-	1.3	2.0				
Attenuation (Reference level from 0 dB)									
D.C. ~ 1820 MHz		dB	21	25	-				
1820 ~ 1850 MHz		dB	28	33	-				
1850 ~ 1950 MHz		dB	21	28	-				
2085 ~ 2400 MHz		dB	21	26	-				
2400 ~ 2430 MHz		dB	25	28	-				
2430 ~ 3000 MHz		dB	25	28	-				
3000 ~ 4010 MHz		dB	28	35	-				
4010 ~ 6000 MHz		dB	15	27	-				
Temperature coefficient of frequency	ppm /°C	-	-34	-					

OUTLINE DRAWING:

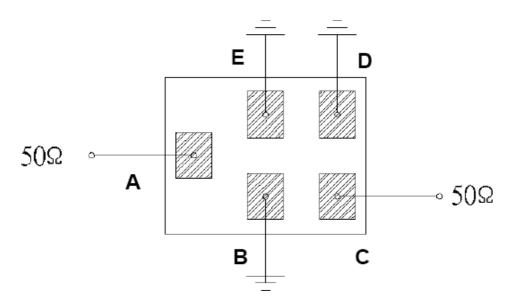


Pin No.	Symbol	Function		
Α	IN	Input		
В	GND	Ground		
С	OUT	Output		
D	GND	Ground		
Е	GND	Ground		
Unit: m	m			

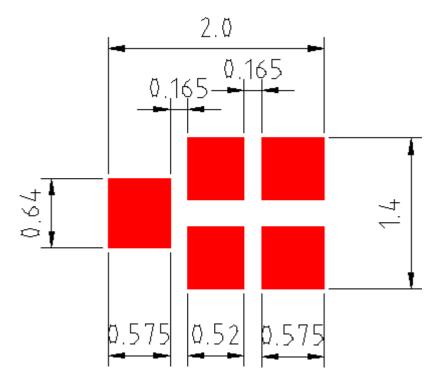
□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2017/2021	Α	В	С	D	E	F	G	Н	J	K	L	М
2018/2022	N	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z
2019/2023	а	b	С	d	е	f	g	h	j	k	I	m
2020/2024	n	р	q	r	s	t	u	٧	w	х	у	Z

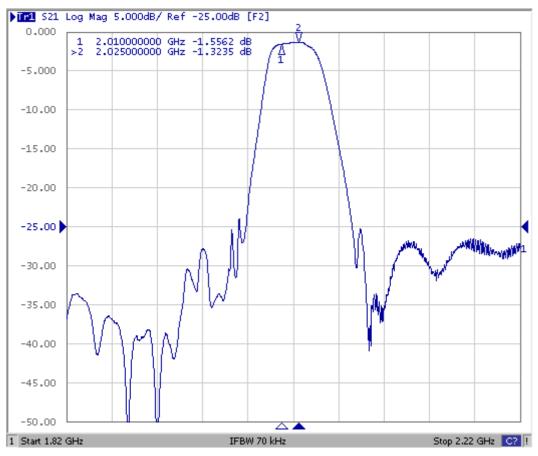
MEASUREMENT CIRCUIT:

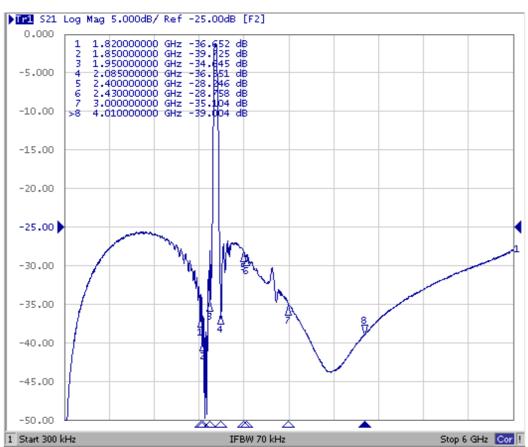


PCB FOOTPRINT:



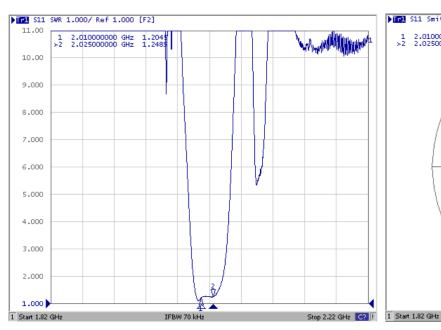
Frequency Characteristics:

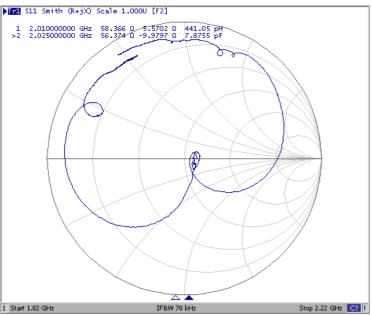




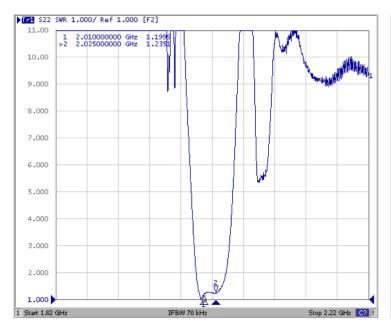
Reflection Functions:

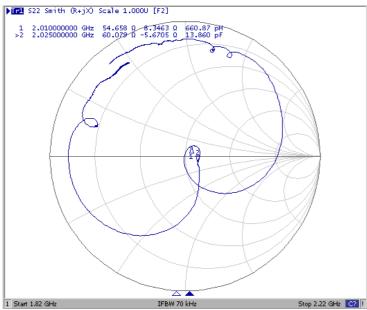
S11





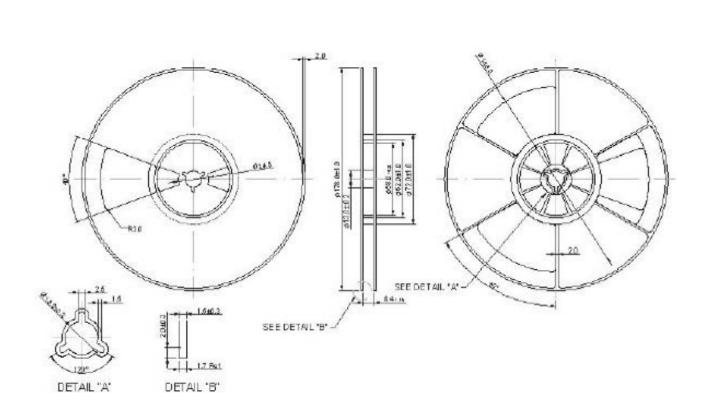
S22



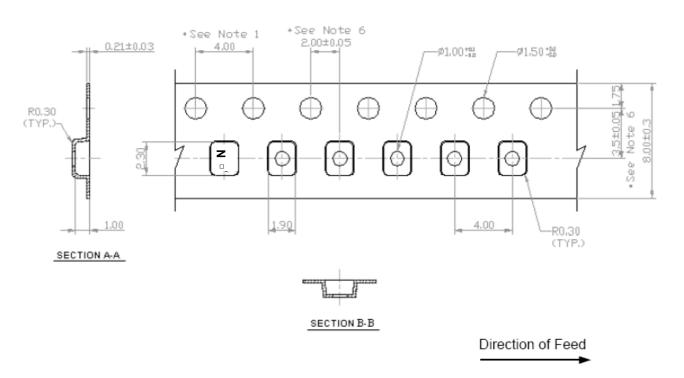


PACKING: Reel Count:

7" = 2000 13" = 10,000

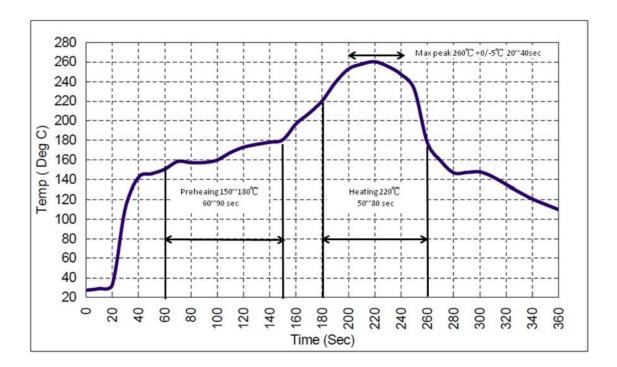


2.TAPE DIMENSION



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.