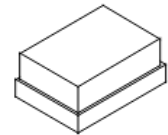


SF2415K

**869 MHz
SAW Filter**



SM1411-5

MAXIMUM RATING:

- Input Power Level: 13 dBm
- DC Voltage : 6V
- Operating Temperature: -40°C to +80°C
- Storage Temperature: -40°C to +80°C
- Moisture Sensitivity Level: Level 3

ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance(single) : $Z_L = 50 \Omega$

Item	Unit	Min	Type.	Max	Note
Center Frequency Fc	MHz	-	869	-	
Insertion Loss (868 to 870 MHz) IL	dB		3.0	3.5	
Amplitude ripple (868 to 870 MHz)			0.5	1.2	
VSWR (868 to 870 MHz)			1.5	2.0	
Attenuation					
50 ~ 791 MHz	dB	45	50		
791 ~ 835 MHz	dB	45	50		
835 ~ 848 MHz	dB	43	48		
847 ~ 862 MHz 30dB for -40°C to +40°C	dB	30*	35		
880 ~ 883 MHz	dB	35	45		
883 ~ 1000 MHz	dB	49	54		
Temperature coefficient	ppm/°C	-36			
Package size	mm	1411			

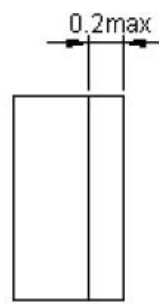
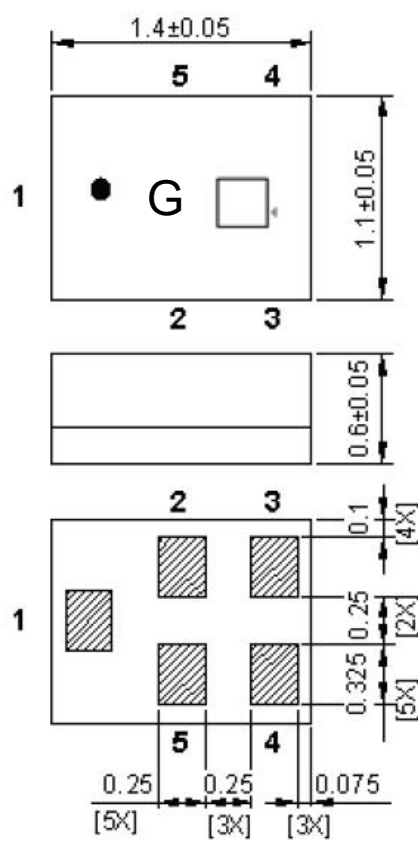


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.

OUTLINE DRAWING:

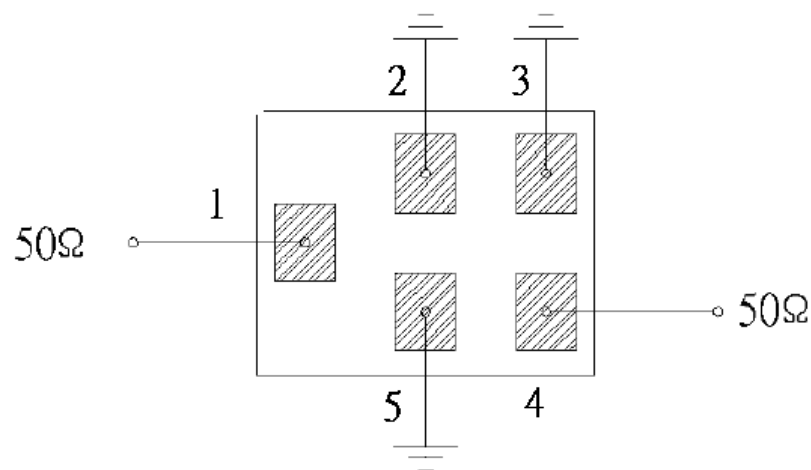


Symbol:
G - assigned by manufacturer
□ Year/Month code

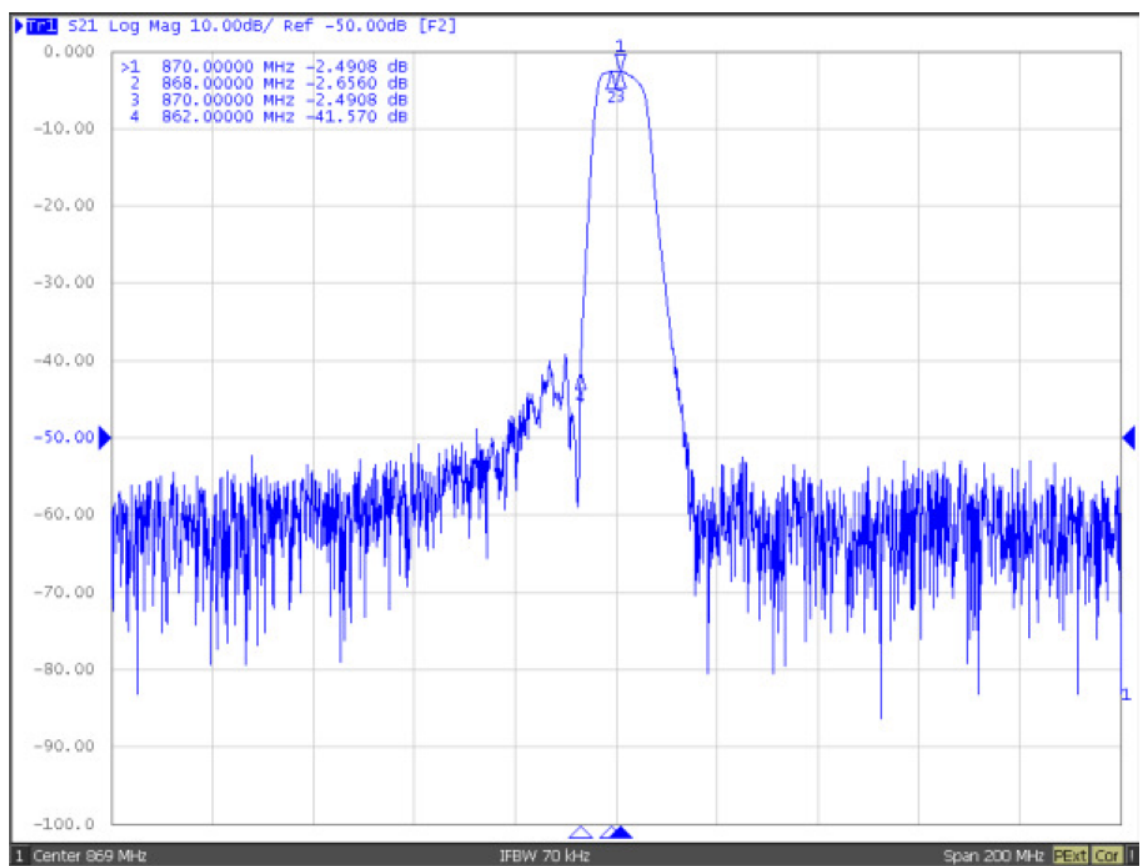
All tolerances are ± 0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

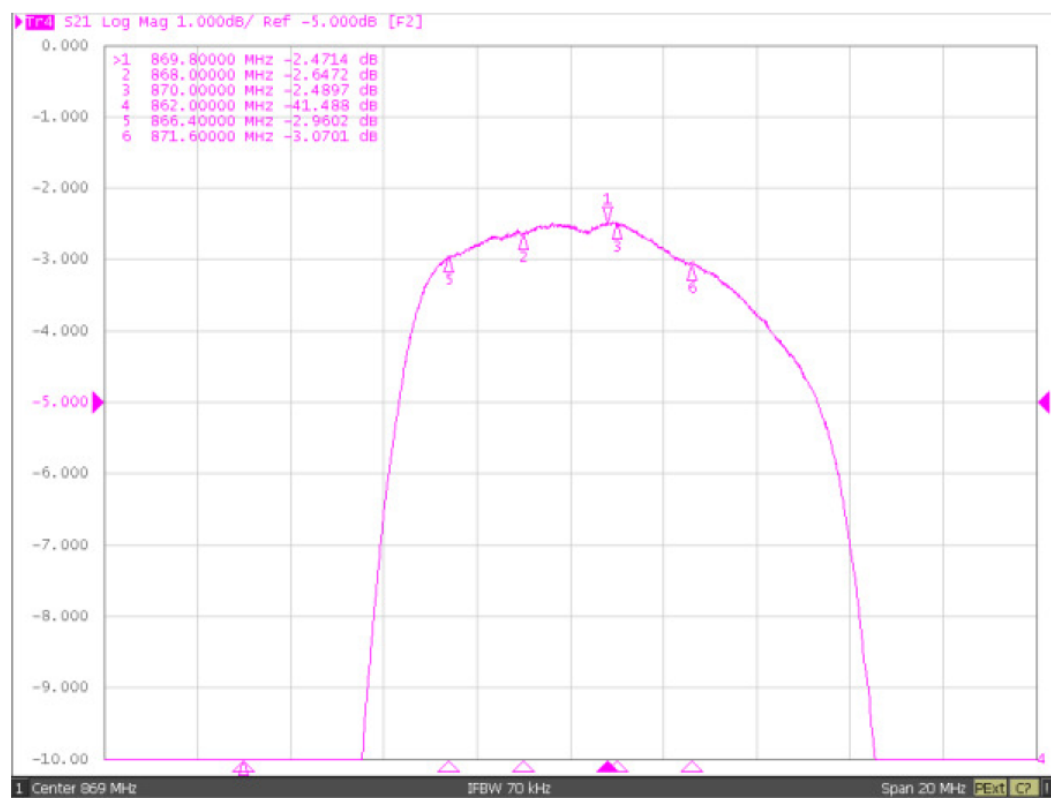
MEASUREMENT CIRCUIT:



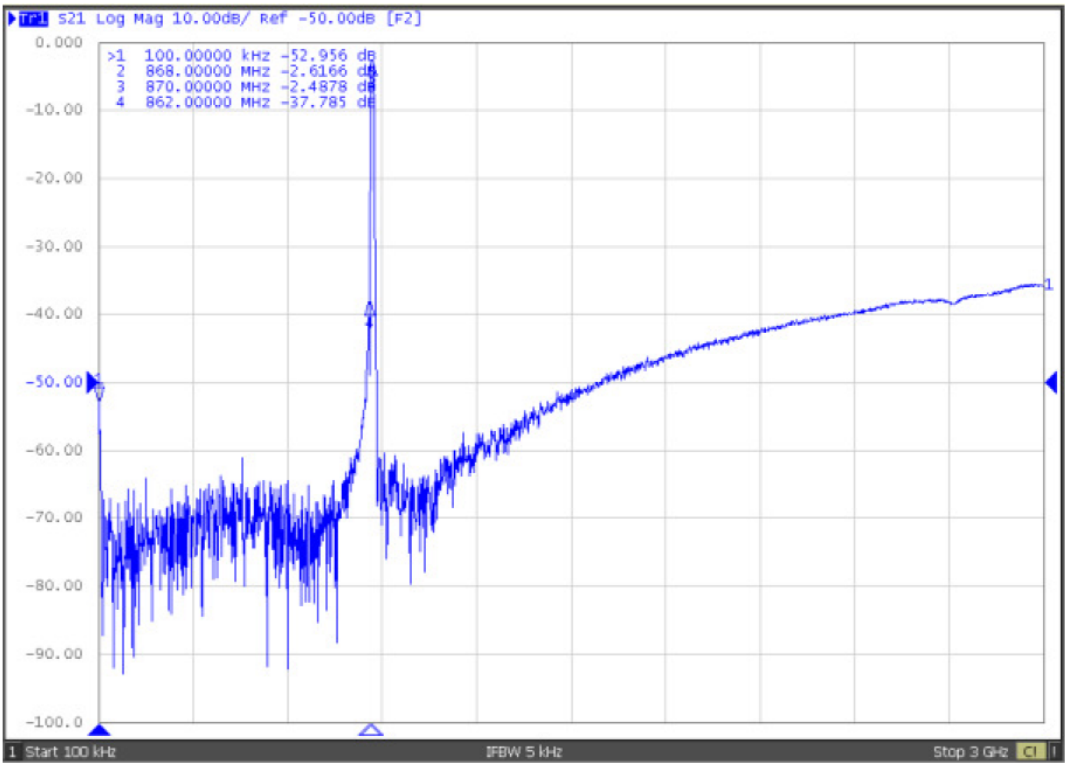
Frequency Characteristics:



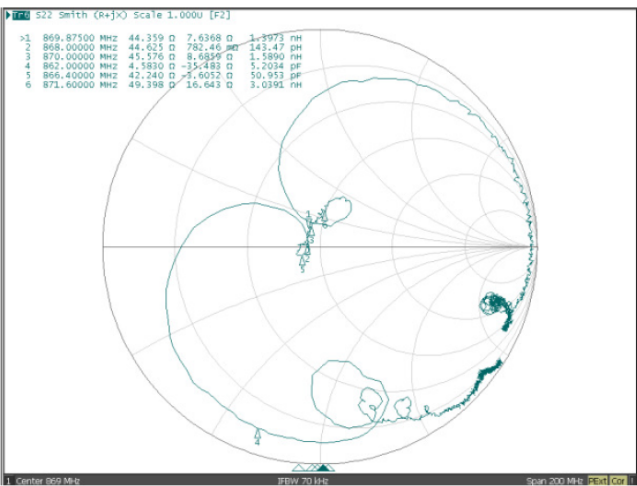
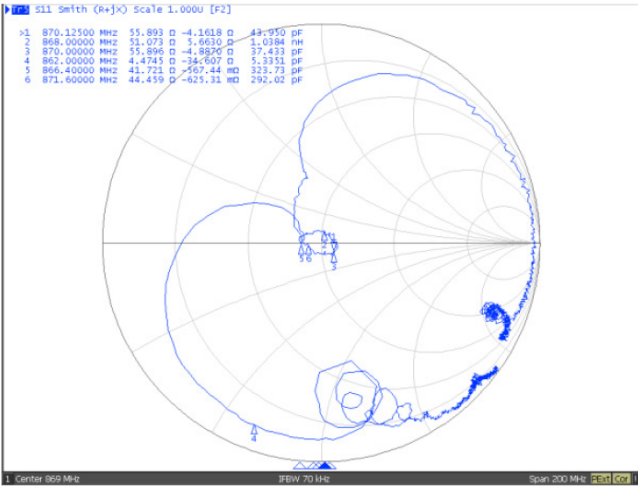
S21 Wide



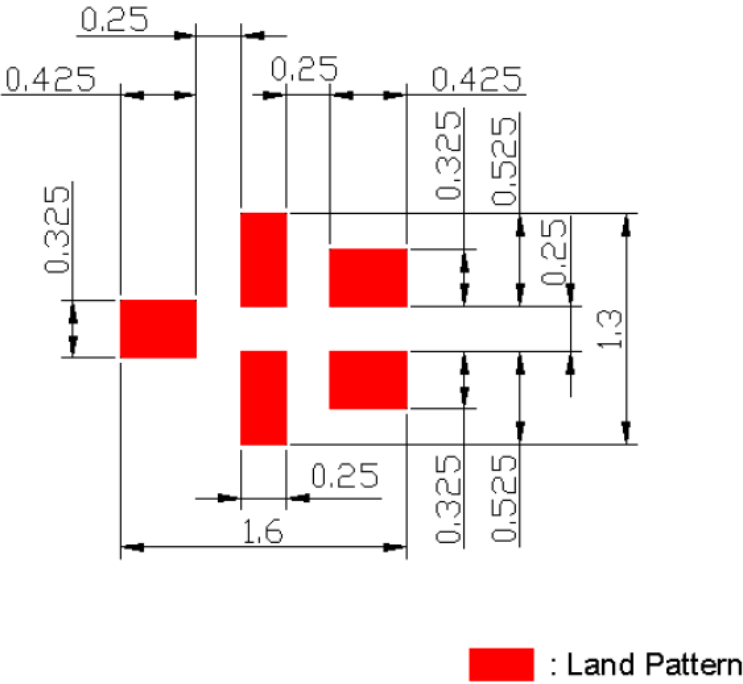
S21 Wide



S11/S22 response: (span 400MHz)



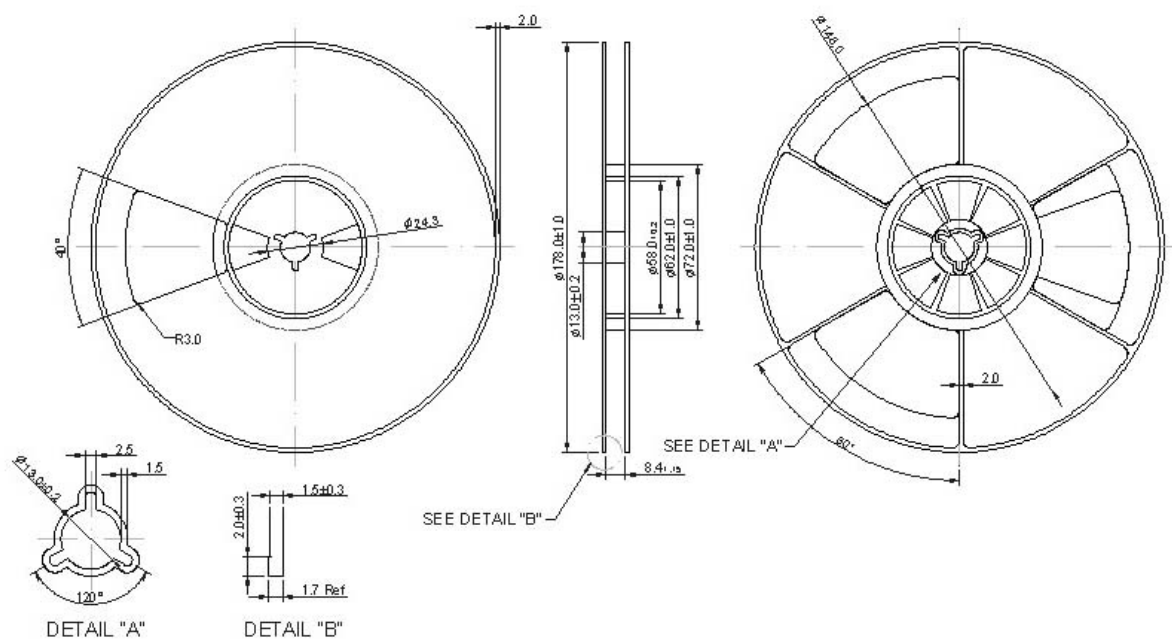
PCB Footprint:



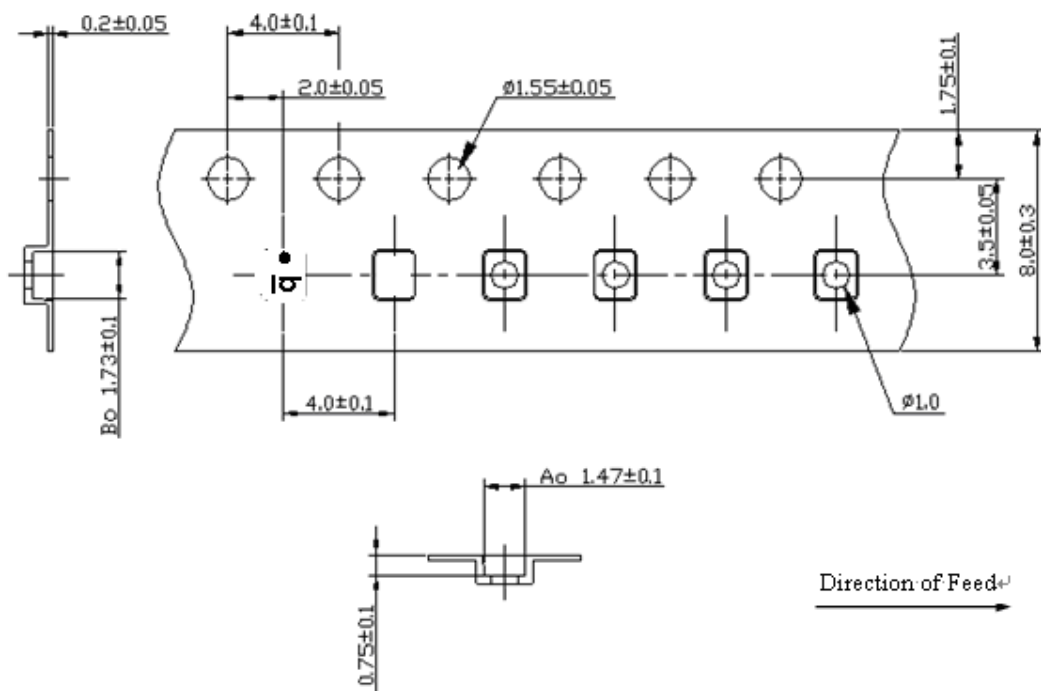
PACKING:

1. REEL DIMENSION

7" Reel = 3000



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.

