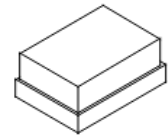


SF2750K

**869 MHz
SAW Filter**



SM1411-5

MAXIMUM RATING:

- Input Power Level: 17 dBm
- DC Voltage : 3V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°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 F_c	MHz	-	869	-	
Insertion Loss (862 - 876 MHz) IL	dB		2.4	3.2	
Amplitude ripple (862 - 876 MHz)			0.8	1.8	
VSWR (862 - 876 MHz)			2.0	2.4	
Attenuation (Reference level from 0dB)					
10 ~ 800 MHz	dB	40	49		
800 ~ 838 MHz	dB	34	44		
838 ~ 849 MHz	dB	18	29		
890 ~ 894 MHz	dB	18	27		
894 ~ 906 MHz	dB	22	31		
906 ~ 960 MHz	dB	40	49		
960 ~ 2500 MHz	dB	26	35		
2500 ~ 2700 MHz	dB	24	34		
2700 ~ 6000 MHz	dB	18	25		
Temperature coefficient	ppm/°C	-36			
Package size	mm	1411			

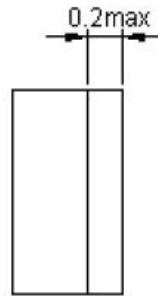
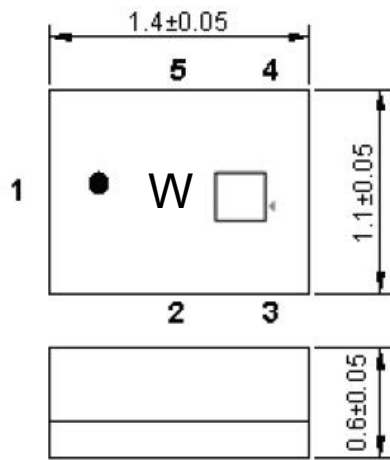


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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:

W - assigned by manufacturer

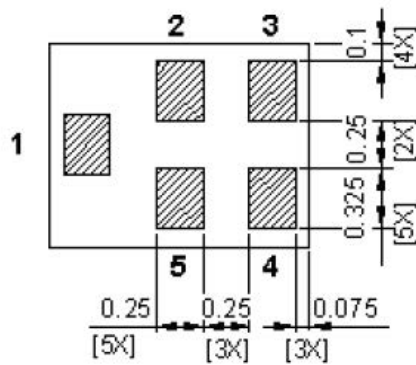
□ Year/Month code

All tolerances are ± 0.05 mm unless otherwise specified

Coplanarity : 0.1 mm max.

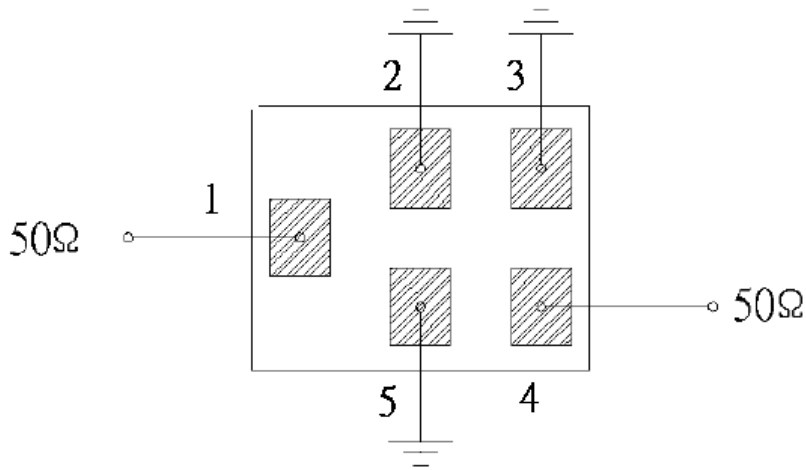
1 to 5 : Pin No.

Unit : mm

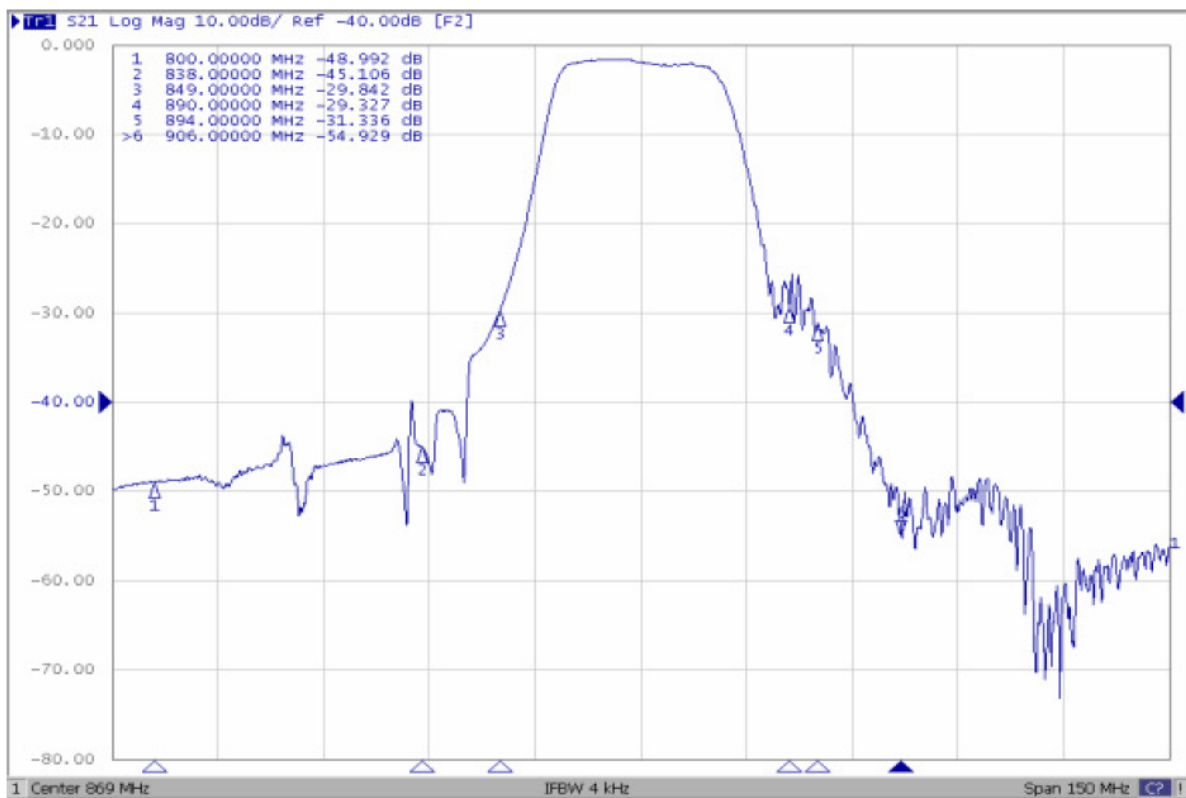


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

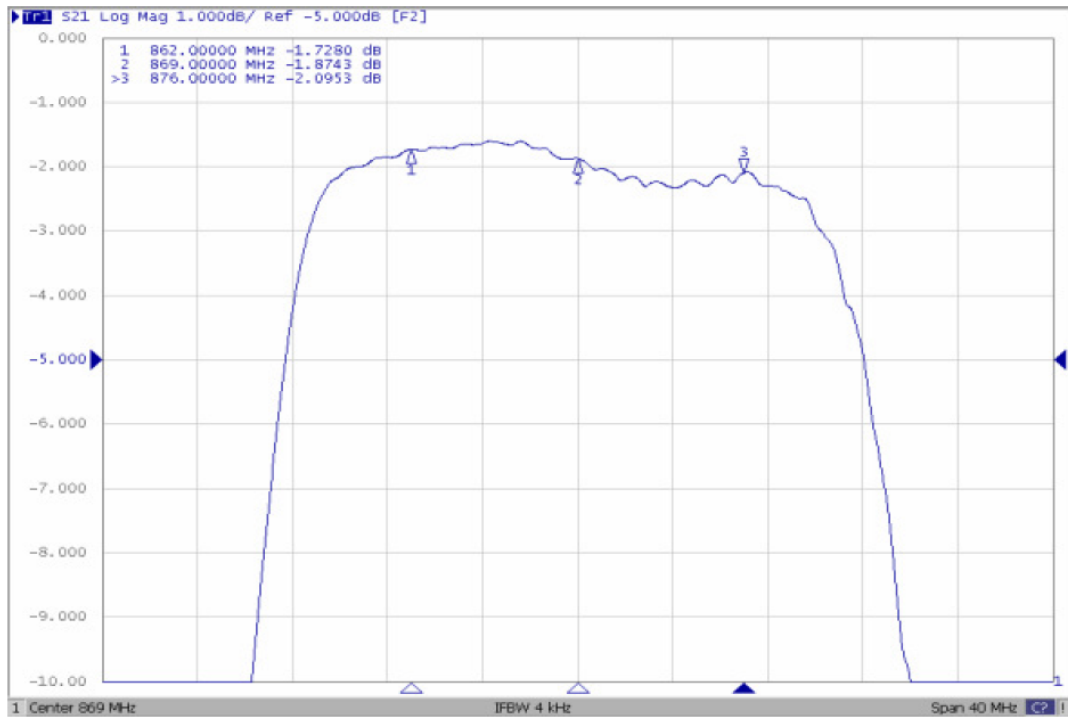
MEASUREMENT CIRCUIT:



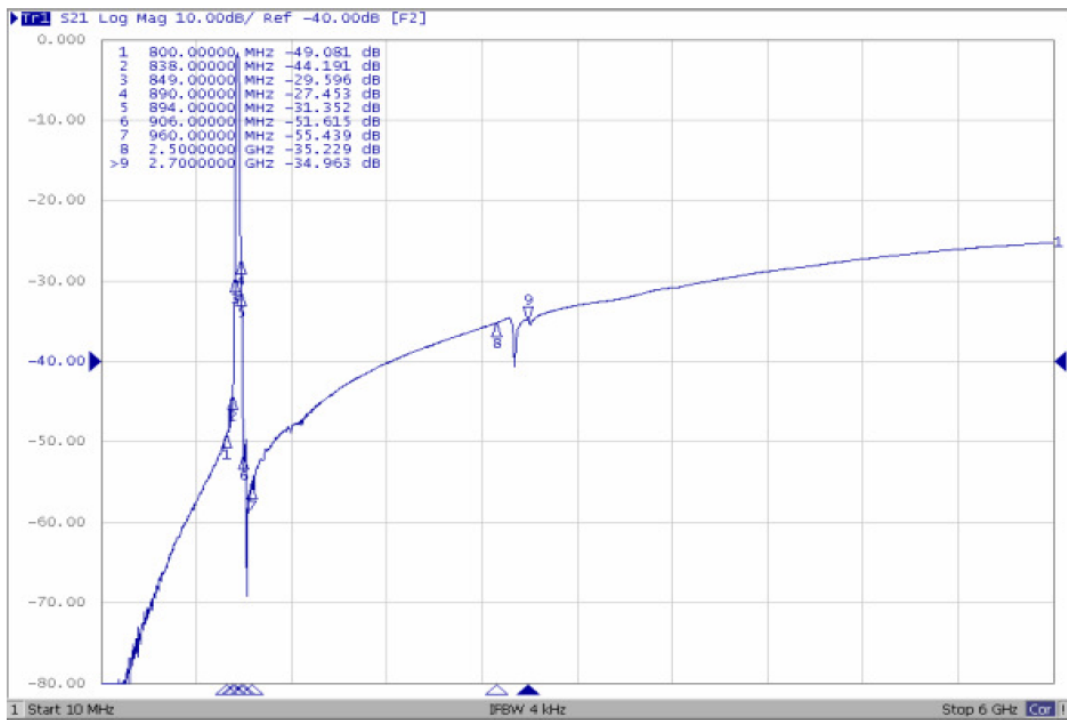
Frequency Characteristics:



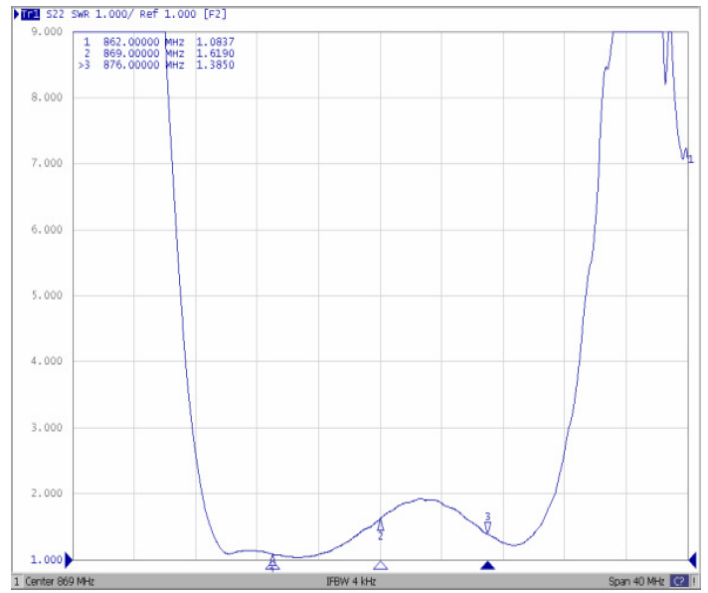
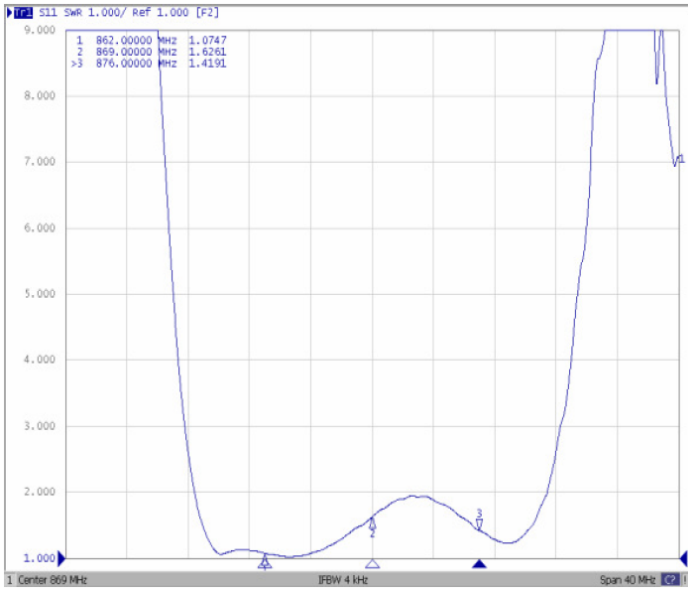
S21 Narrow



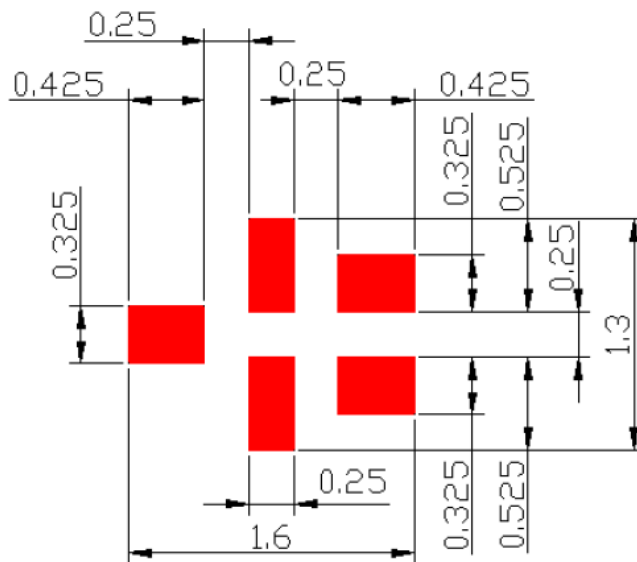
S21 Wide



S11/S22 respons



PCB Footprint:



: Land Pattern

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.

