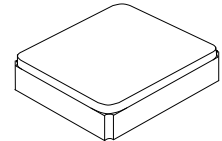


SF2738R

1176.45 MHz
SAW Filter



SM0907-4

- *RF Filter Designed for Front End GPS Applications*
- *Low Insertion Loss*
- *0.9 x 0.7 mm Surface-Mount Case*
- *Complies with Directive 2002/95/EC (RoHS)*
- *MSL Level: 3*

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+15	dBm
Maximum DC Voltage Between any Two Terminals	5	VDC
Operating Temperature Range	-30 to +85	°C
Storage Temperature Range	-40 to +85	°C
Maximum Soldering Profile	265°C for 10 s	

Electrical Characteristics

Source impedance $Z_{S=}$ 50 Ω
Load impedance $Z_{L=}$ 50 Ω

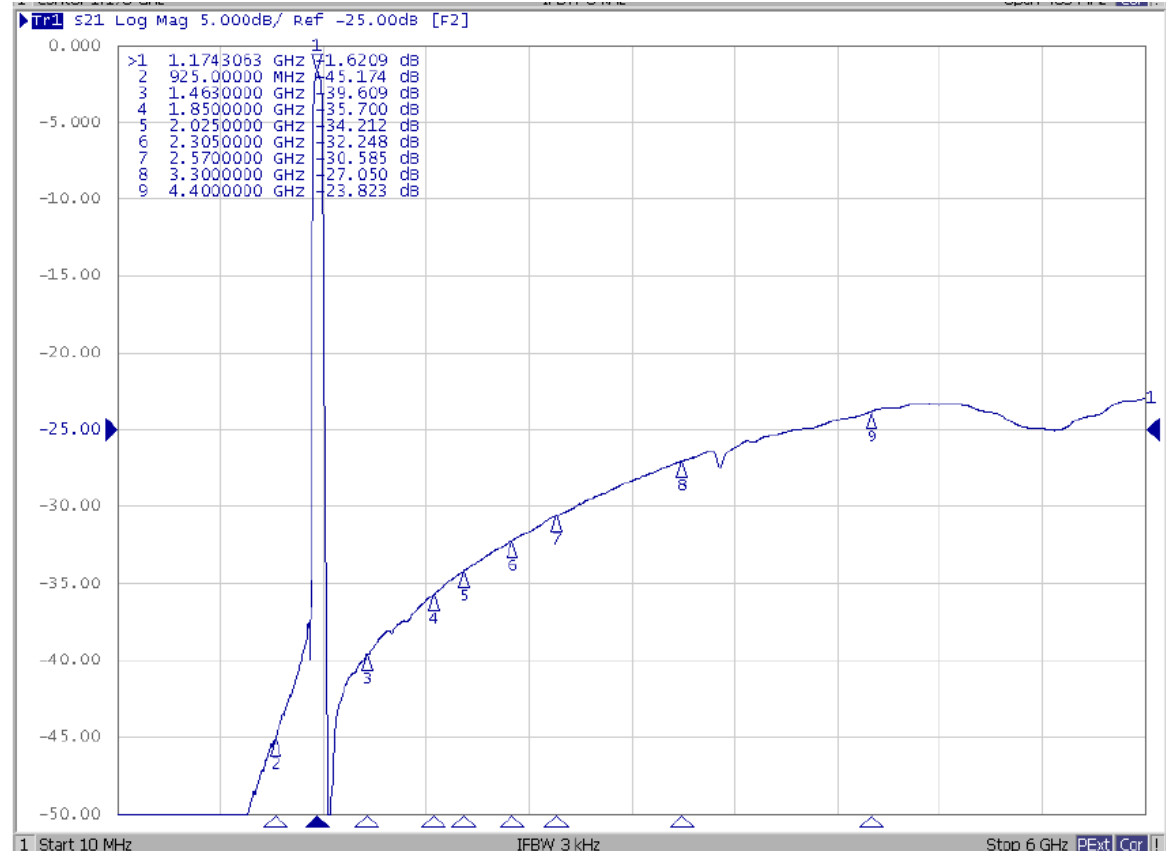
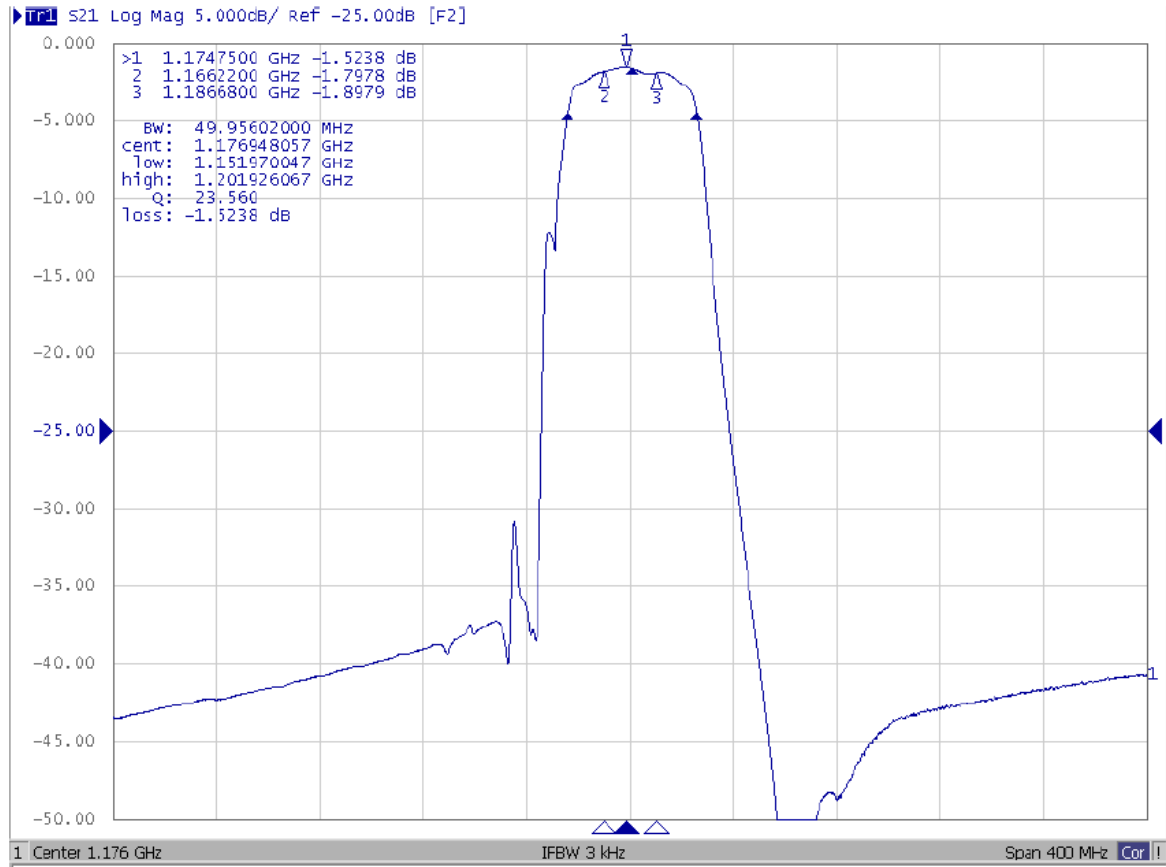
Characteristic		Sym	Notes	Min	Typ	Max	Units
Center Frequency		f_C		1176.45			MHz
Insertion Loss	1166.22 to 1186.68 MHz	IL_{MAX}			1.8	2.5	dB
Amplitude Ripple	1166.22 to 1186.68 MHz				0.6	1.4	
VSWR	1166.22 to 1186.68 MHz				1.8	2.1	
Attenuation (Reference to 0 dB)							dB
638 to 698 MHz				40	56		
698 to 748 MHz				40	52		
777 to 798 MHz				40	48		
807 to 915 MHz				40	46		
925 to 960 MHz				40	44		
1330 to 1427 MHz				33	38		
1427 to 1463 MHz				30	37		
1640 to 1695 MHz				30	37		
1695 to 1785 MHz				30	36		
1850 to 2025 MHz				30	34		
2300 to 2690 MHz				25	28		
3400 to 3800 MHz				20	25		
4400 to 4900 MHz				20	24		
5150 to 5925 MHz				20	24		
Temperature Coefficient of Frequency		ppm/°C			-36		

Single-ended Input / Output Impedance Match	No matching network required for operation at 50 ohms
Case Style	SM0907-4
Lid Symbolization (Y=year, W=week)	m, YW

 **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.

Frequency Characteristics



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 (20-40 sec).
4. Time: 2 times maximum.

