



SF2098G

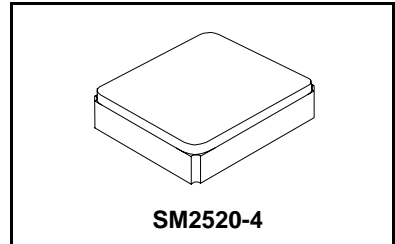
**915.00 MHz
SAW Filter**

- Low-loss SAW Filter
- 2.5 x 2.0 x 1.05 mm Surface-mount Case
- No Matching Circuit Required
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+15	dBm
Maximum DC voltage between any Two Terminals	3	VDC
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Reflow Soldering Profile	265 °C for 10 s	



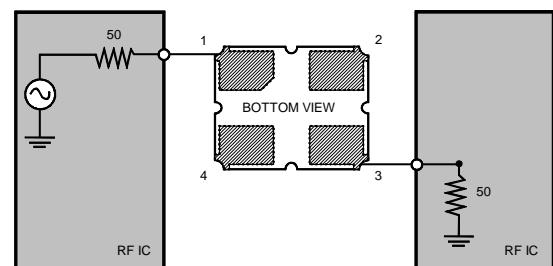
Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_c			915		MHz
Insertion Loss, 902 to 928 MHz	IL			2.2	3.0	dB
Amplitude Ripple, 902 to 928 MHz				0.5	1.5	dB _{p-p}
VSWR, 902 to 928 MHz				1.6:1	2.2:1	
Attenuation (Reference level from 0 dB)						dB
DC to 800 MHz			45	63		
800 to 870 MHz			40	53		
960 to 1080 MHz			30	40		
1080 to 2000 MHz			35	53		
2000 to 3000 MHz			22	28		
Source impedance	Z_s			50		Ω
Load impedance	Z_L			50		Ω
Operating Temperature	T_A		-40		+85	°C

Single Ended Input / Output, Impedance match	No matching network required for operation at 50 ohms
Case Style	SM2520-4
Lid Symbolization (2C=SF2098G Y=year, W=week)	2C, YW

Electrical Connections

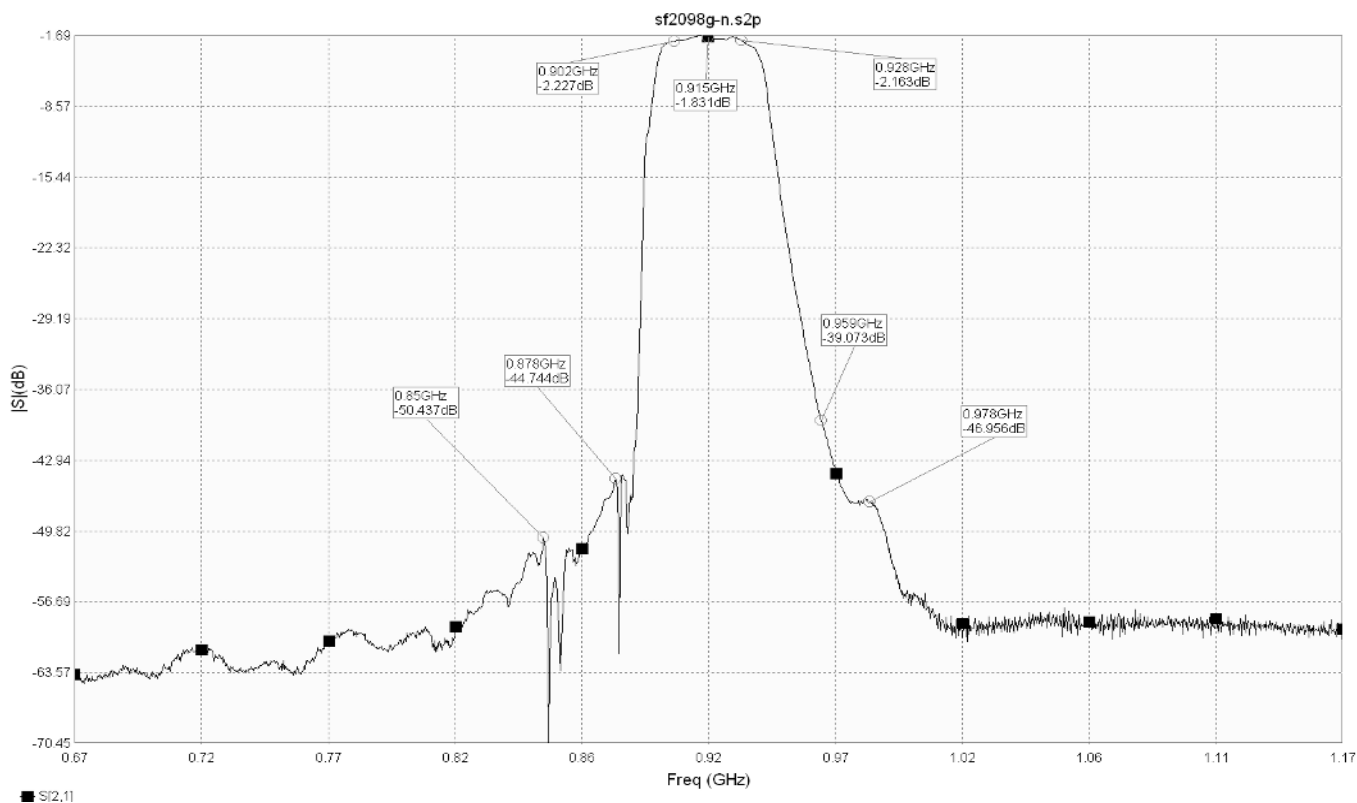
Connection	Terminals
Input	1
Output	3
Ground	All others



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

1. US and international patents may apply.
2. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.

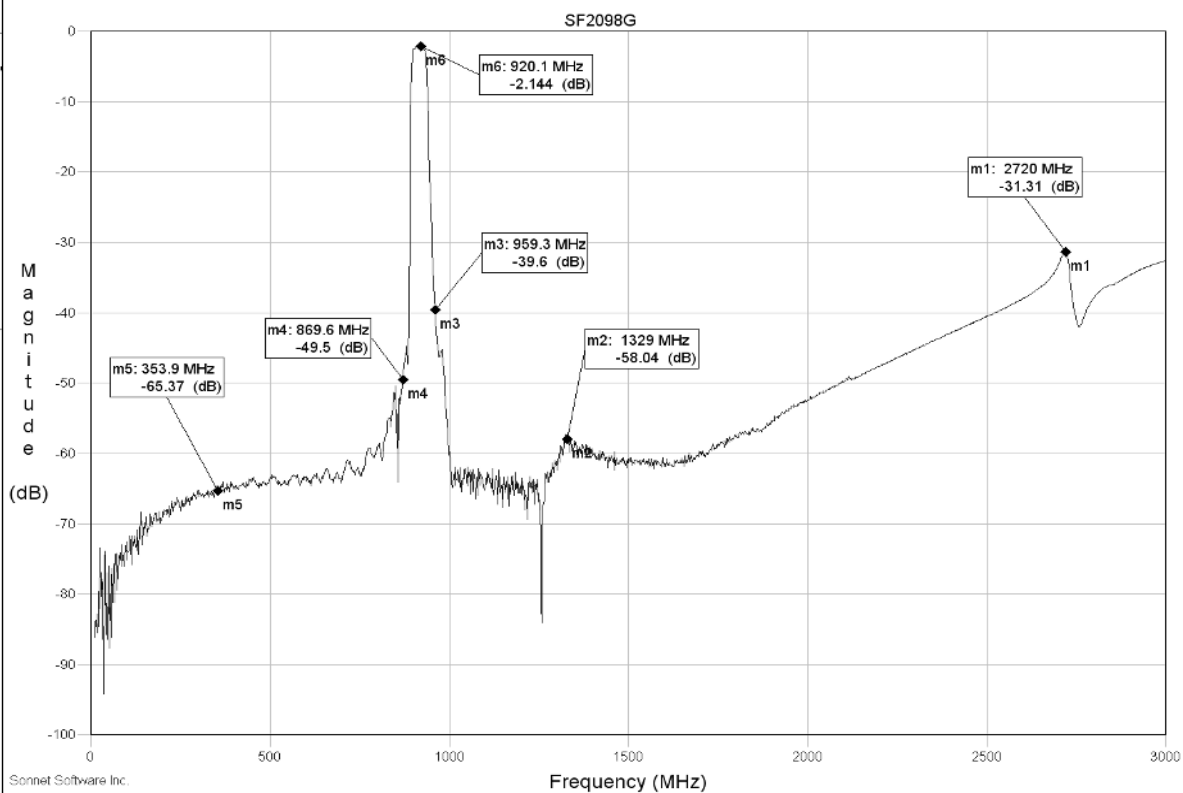


Cartesian Plot
Z0 = 50.0

Left Axis
sf2098g-3GHz-S Param
DB[S21]

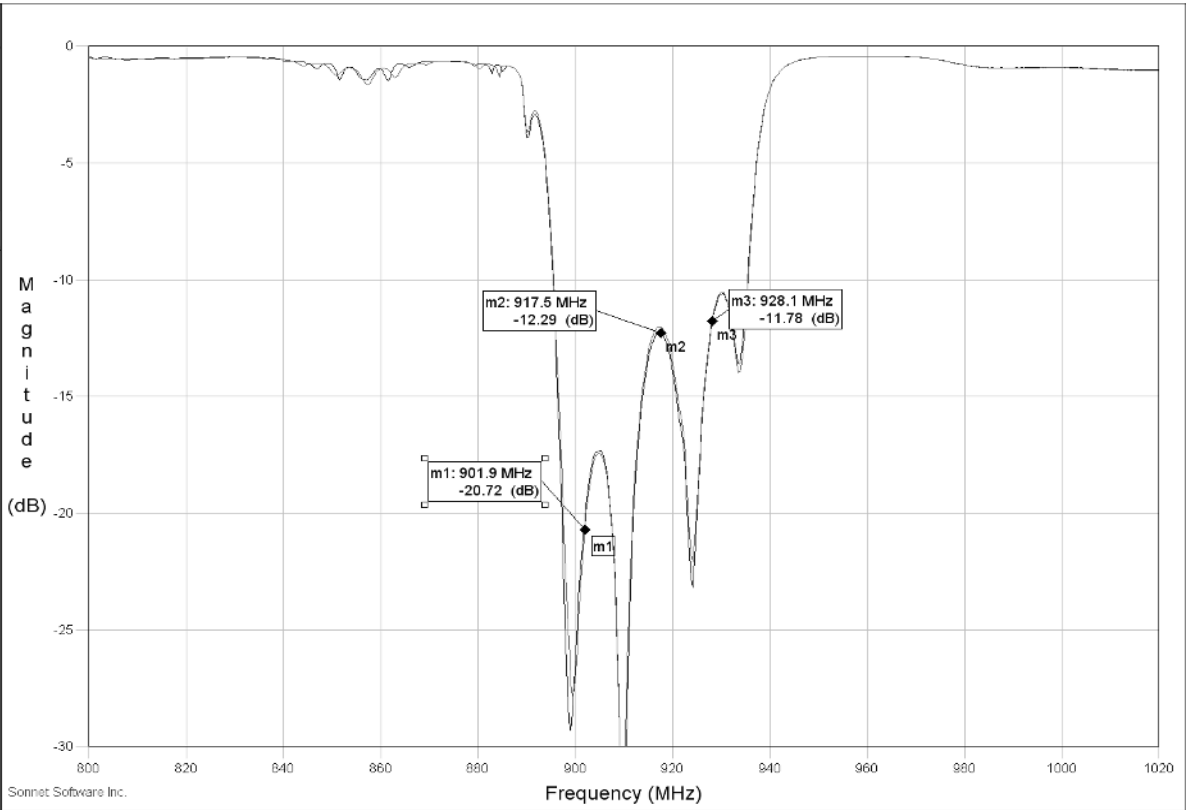
- m1: 2720 MHz -31.31 (dB)
- m2: 1329 MHz -58.04 (dB)
- m3: 959.3 MHz -39.6 (dB)
- m4: 869.6 MHz -49.5 (dB)
- m5: 353.9 MHz -65.37 (dB)
- m6: 920.1 MHz -2.144 (dB)

Right Axis
[empty]



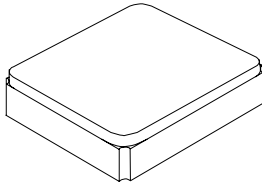
Cartesian Plot
Z0 = 50.0
Left Axis
sf2098g-n None
DB[S11]
m2: 917.5 MHz
-12.29 (dB)
m3: 920.1 MHz
-11.78 (dB)
DB[S22]
m1: 901.9 MHz
-20.72 (dB)

Right Axis
[empty]

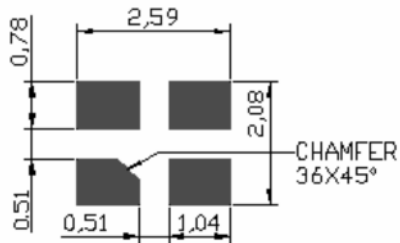


SM2520-4 Case

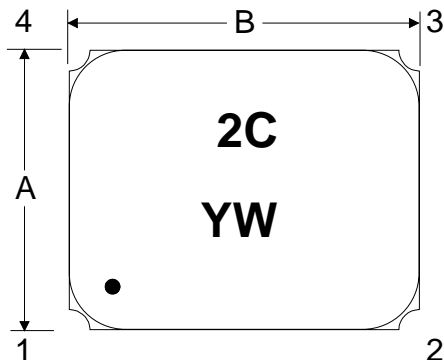
4-Terminal Ceramic Surface-Mount Case 2.5 X 2.0 mm Nominal Footprint



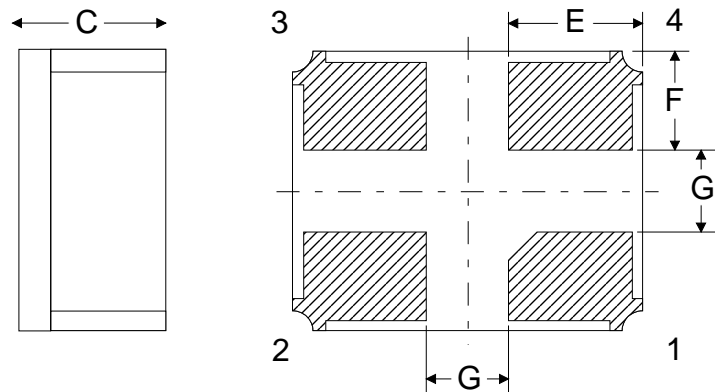
PCB Foot Print



TOP VIEW



BOTTOM VIEW



Case Dimensions

Dimension	mm		
	Nom		
A		2.0	
B		2.5	
C		1.0	
E		0.95	
F		0.70	
G		0.60	

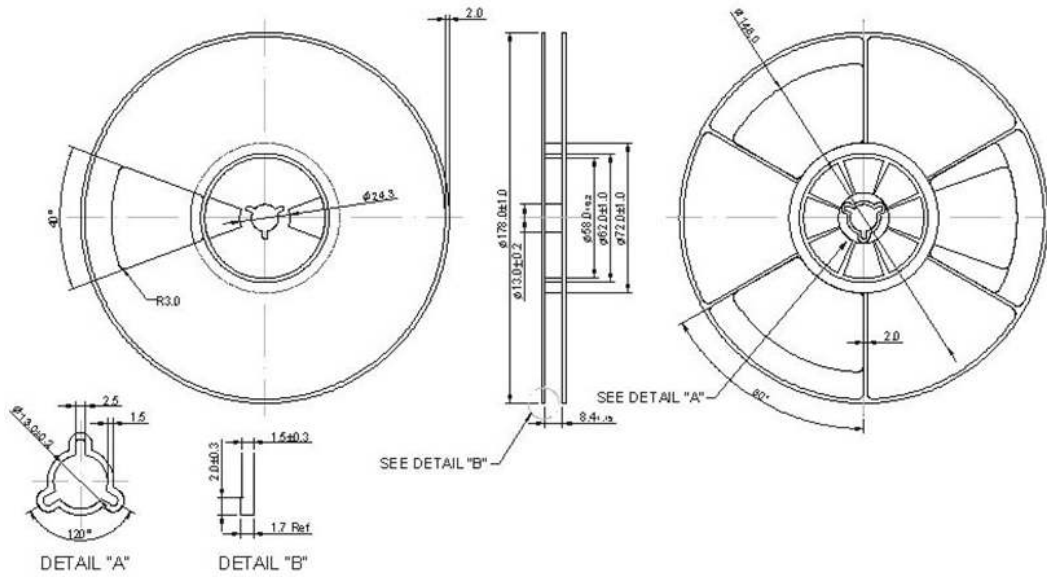
Electrical Connections

Connection		Terminals
Port 1	Single-ended Input	1
Port 2	Single-ended Output	3
	Ground	All others
Single Ended Operation Only		

Materials

Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel
Lid Plating	2.0 to 3.0 μm Nickel
Body	Al_2O_3 Ceramic
Pb Free	

Reel Dimension



Tape Dimension

