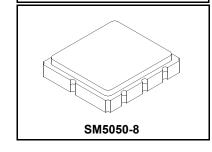




RFM products are now Murata products.

SF2091C

385.00 MHz **SAW Filter**



Low Insertion Loss

- 5.0 X 5.0 mm Surface-mount Case
- Single-ended Input and Output
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+13	dBm
Maximum DC Voltage on any Non-ground Terminal	30	VDC
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Temperature	260 °C for 30 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency	f _C	1		385.00		MHz
Insertion Loss	IL _{MAX}	1			12	dB
1.2 dB Bandwidth	BW _{1.2}	1	30	32		MHz
Amplitude Ripple, f _C ±15 MHz, within Adjacent 5 MHz Windows		1			1	dB _{P-P}
Group Delay Deviation, f _C ±15 MHz, within Adjacent 5 MHz Windows		1			50	ns _{P-P}
Group Delay Deviation, f _C ±15 MHz, full bandwidth		1		305		ns _{P-P}
VSWR at f _C		1			2.5:1	
Group Delay, f _C ±15 MHz		1		305		ns
40 dB Rejection Bandwidth		1, 2			65	MHz
Operating Temperature Range			-40		85	°C
Case Style	SM5050-8 5 x 5 mm Nominal Footprint					
Lid Symbolization (Y=year, WW=week, S=shift)	RFM 593 YWWS					

Electrical Connections

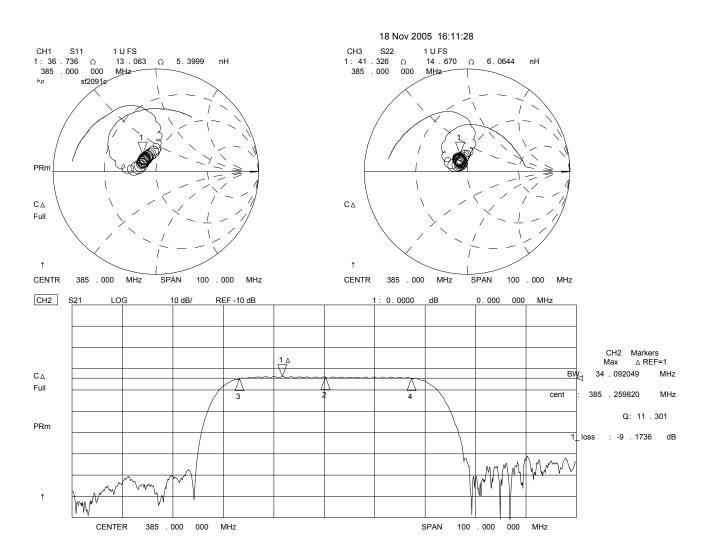
Connection		Terminals
Port 1	Input	1
Port 2	Output	5
	Ground	All others
Dot indicates	Pin 1	

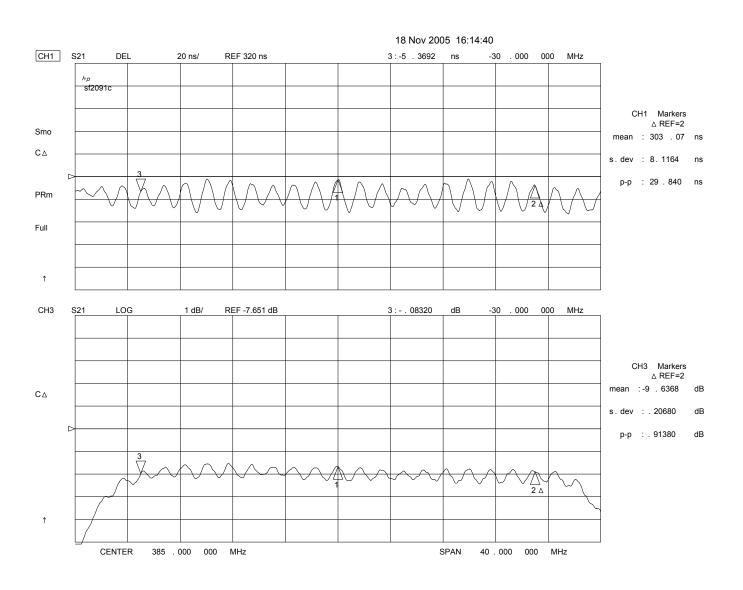


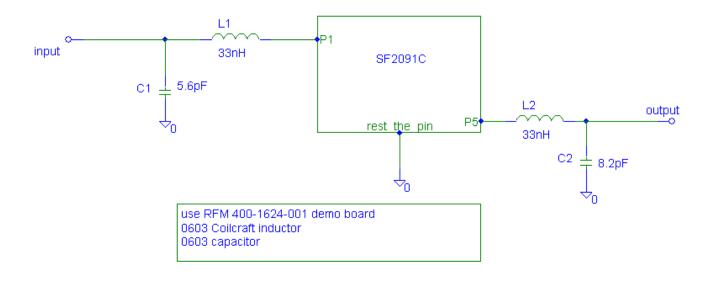
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

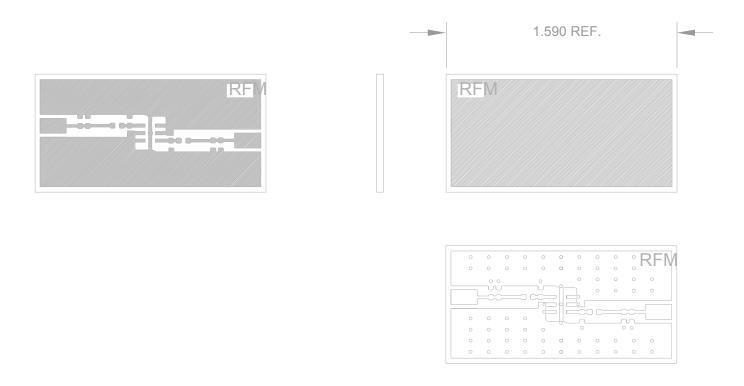
NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer. Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external
- impedance matching design. See Application Note No. 42 for details.
- The design, manufacturing process, and specifications of this filter are subject to change. Tape and Reel Standard ANSI / EIA 481.
- Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
- US and international patents may apply.
- Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.



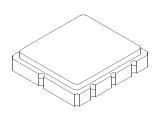


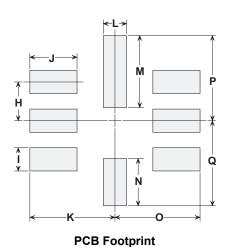




SM5050-8 Surface-Mount 8-Terminal Ceramic Case 5.0 X 5.0 mm Nominal Footprint



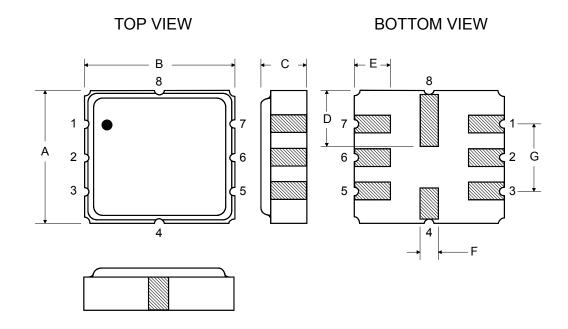




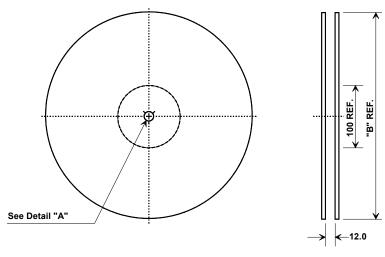
Dimension	mm			Inches		
Dimension	Min	Nom	Max	Min	Nom	Max
Α	4.80	5.00	5.20	0.189	0.197	0.205
В	4.80	5.00	5.20	0.189	0.197	0.205
С	1.30	1.50	1.70	0.050	0.060	0.067
D	1.98	2.08	2.18	0.078	0.082	0.086
E	1.07	1.17	1.27	0.042	0.046	0.050
F	0.50	0.64	0.70	0.020	0.025	0.028
G	2.39	2.54	2.69	0.094	0.100	0.106
Н		1.27			0.050	
I		0.76			0.030	
J		1.55			0.061	
K		2.79			0.110	
L		0.76			0.030	
М		2.36			0.093	
N		1.55			0.061	
0		2.79			0.110	
P		2.79			0.110	
Q		2.79			0.110	

Case Materials

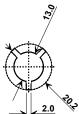
Materials			
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel		
Lid Plating	2.0 to 3.0 µm Nickel		
Body	Al ₂ O ₃ Ceramic		
Pb Free			



Tape and Reel Specifications



"B" Nominal Size		Quantity Per Reel	
Inches	millimeters		
7	178	500	
13	330	3000	



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	5.3 mm
Во	5.3 mm
Ko	2.0 mm
Pitch	8.0 mm
W	12.0 mm

