



RFM products are now Murata products.

SF2271C

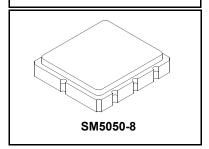
- · Low Insertion Loss SAW Filter
- 5.0 x 5.0 mm Surface-mount Case
- Direct 50 ohm Operation
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units	
Maximum Incident Power in Passband	+10	dBm	
Maximum DC Voltage on any Non-ground Terminal	3	V	
Operating Temperature	-40 to + 85	°C	
Storage Temperature Range in Tape and Reel	-40 to + 85	°C	
Maximum Soldering Profile	265 °C	265 °C for 10 s	





Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C	1		460		MHz
Minimum Insertion Loss	IL _{MIN}	1		1.5	2.8	dB
2 dB Bandwidth	BW ₂	1	20	23.4		MHz
Rejection Referenced to 0 dB:						
f _C -45 to f _C -100 MHz		1, 3	40	56		dB
f_C +45 to f_C +55 MHz		1, 3	30	56		7 UB
f _C +55 to f _C +100 MHz		Ì	40	54		
Frequency Temperture Coefficient	FTC			-36		ppm/°C
Source Impedance				50		ohms
Load Impedance				50		ohms
Case Style		6	SM50	50-8 5 x 5 mr	n Nominal Foo	tprint
Lid Symbolization (Y=year, WW=week, S=shift) See note 4			A19			

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.

Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.

2. 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.
"LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."

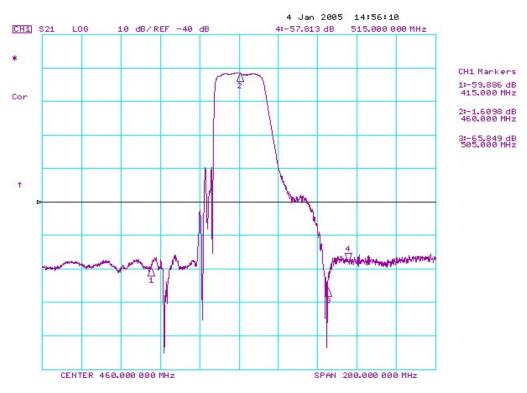
The design, manufacturing process, and specifications of this filter are subject to change. Tape and Reel Standard ANSI / EIA 481.

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 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.

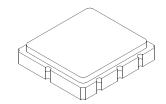
Filter Transition Bandwidth Plot

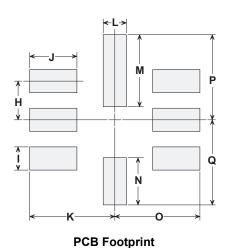


Filter Passband Plot



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





Case Dimensions

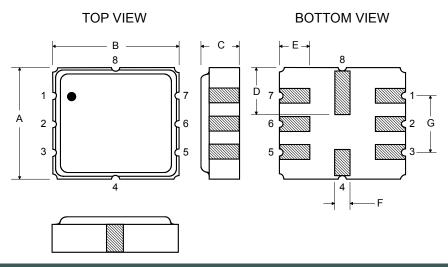
Dimension		mm			Inches	
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	4.80	5.00	5.20	0.189	0.197	0.205
В	4.80	5.00	5.20	0.189	0.197	0.205
С	1.30	1.50	1.70	0.050	0.060	0.067
D	1.98	2.08	2.18	0.078	0.082	0.086
E	1.07	1.17	1.27	0.042	0.046	0.050
F	0.50	0.64	0.70	0.020	0.025	0.028
G	2.39	2.54	2.69	0.094	0.100	0.106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

Case Materials

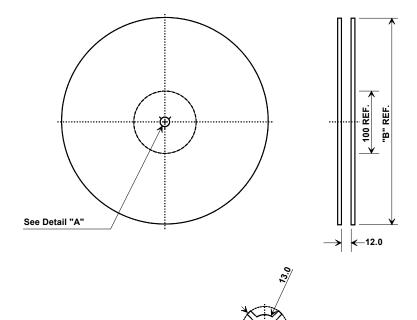
Materials				
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

Electrical Connections

	Connection	Terminals		
Port 1	Input	2		
Port 2	Output	6		
	Ground	All others		
Dot indicates Pin 1				



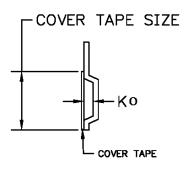
Tape and Reel Specifications

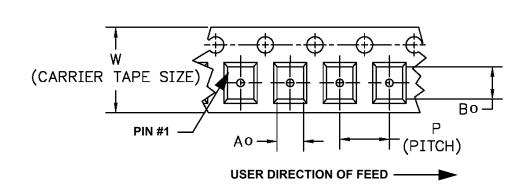


"B" Nominal Size		Quantity Per Reel	
Inches	millimeters		
7	178	500	
13	330	3000	

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		





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Murata: SF2271C