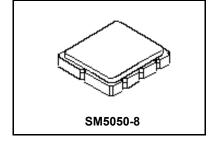
PRELIMINARY



RFM products are now Murata products.

SF2365C

- 169.4375 MHz **SAW Filter**



- · SAW Filter for Smart Meters
- 5.0 x 5.0 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

tacolato maximum ratingo					
Rating	Value	Units			
Operating Temperature Range	-20 to +70	°C			
Terminating Impedance (Matching)	50	Ω			
Input Power Level	10	dBm			
DC Voltage	5	V			
Storage Temperature	-40° to + 85°	С			

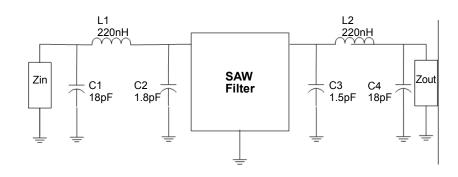
Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency	Fc	1		169.4375		MHz
3 dB passband width	•		-37.5		+37.5	kHz
Insertion Loss at Center Frequency	ILc			4.7	6.0	dB
Ripple (169.4 to 169. 475)					2.0	dB
Attenuation (from min loss in passband)						
165.4375 to 168.5175 MHz			40	55		
168.5175 to 169.1275 MHz			30	45		dB
169.7475 to 170.3575 MHz			30	60		
170.3575 to 173.4375 MHz			40	46		
Temperature Coefficient of Frequency	TCf		-(0.033		ppm/C [^]

Case Style	SM5050-8 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=shift)	B-28, YWWS

Electrical Connections

Connection	Terminals
Input	1
Output	5
Ground	3, 4, 7, 8
Input Ground	2
Output Ground	6

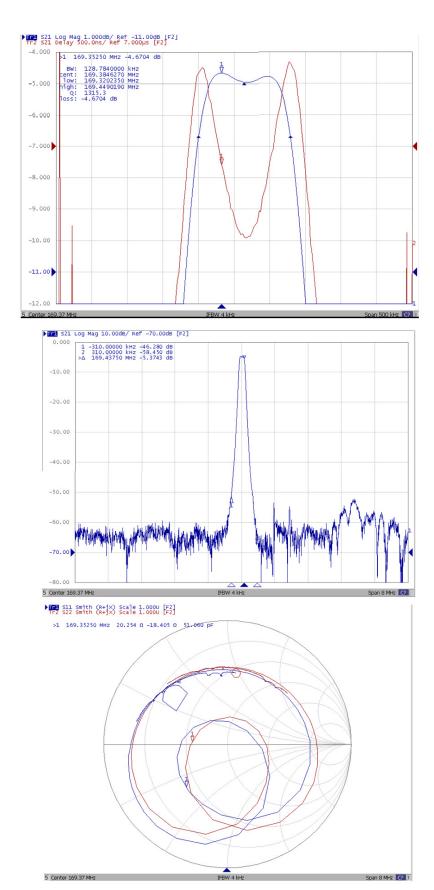


NOTES:

US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

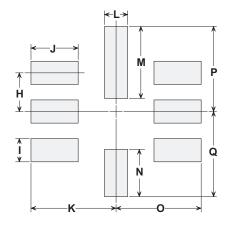
Frequency Characteristics



SM5050-8 Case

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

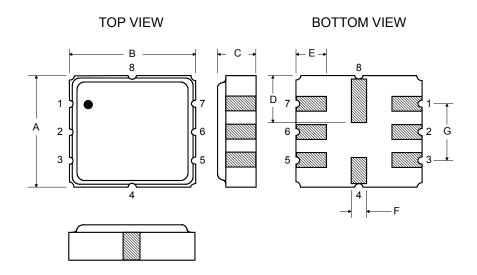
PCB Footprint



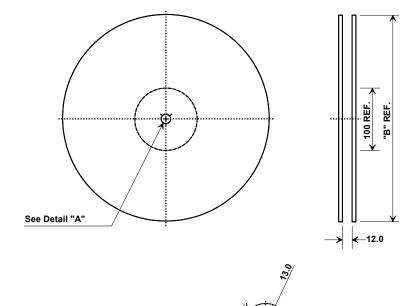
Case Dimensions

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	1.03	1.15	1.27	0.040	0.043	0.050
D	1.93	2.08	2.23	0.078	0.082	0.086
E	1.05	1.20	1.35	0.041	0.047	0.053
F	0.50	0.40	0.70	0.019	0.001	0.027
G	2.39	2.54	2.69	0.094	0.100	0.106
Н		1.27			0.050	
I	0.55	0.60	0.65	0.021	0.023	0.025
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	

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

