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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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RFM products are now Murata products.

SF2151B

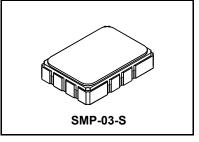
- IF SAW Filter, 211.2 MHz, 20 MHz BW
- · Low-loss Filter for WCDMA applications
- 5.0 X 7.0 x 1.7 mm Surface-mount Case
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage Between any Two Terminals	30	VDC
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Temperature	265 °C for 10 s	

211.2 MHz **SAW Filter**



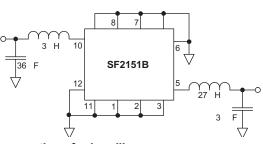
Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units	
Nominal Center Frequency		f _C	1		211.2		MHz	
Insertion Attenuation		α_{min}			13.5	16.0		
Amplitude Ripple (p-p)	f _C ±9.42 MHz	Δα	1		0.35	1.5	dB	
	f _C ±10.00 MHz				0.45	2.0		
Group Delay Ripple (p-p)	f _C ±10.00 MHz	Δτ	1		20	100		
Group Delay	at f _C	τ			700	800	ns	
VSWR	f _C ±10.00 MHz				1.2:1	2:1		
Relative Attenuation (relative to α_{min})	10 to 100 MHz			50			dB	
	100 to168 MHz			53			dB	
	168 to 196.5 MHz			20			dB	
	260 to 270 MHz			48			dB	
	270 to 360 MHz			45			dB	
Operating Temperature Range		T _A	1	-40		+85	°C	
Case Style			- 5	SMP-03-S 7 x 5 mm Nominal Footprint		tprint		
Lid Symbolization (YY=year, WW=week, S=shift) See note 4]	RFM SF2151 YYWWS				

Electrical Connections

Connection	Terminals
Input	10
Output	5
Ground	All Others

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CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

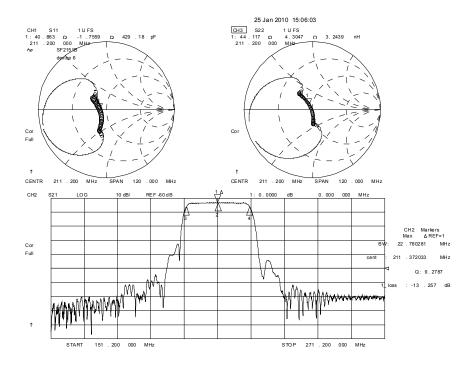
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance 1. matching to 50 Ω and measured with 50 Ω network analyzer.
- 2. 3. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.
- 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.

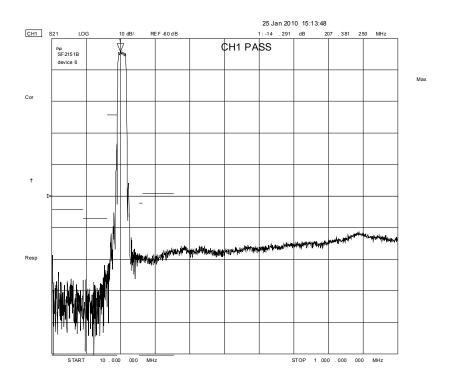
 Tape and Reel Standard Per ANSI / EIA 481.

- 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.

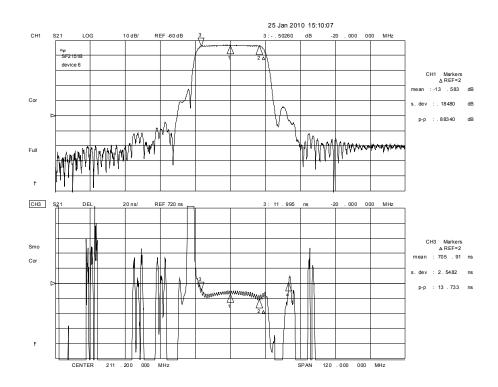
Filter Response and Impedance Plots



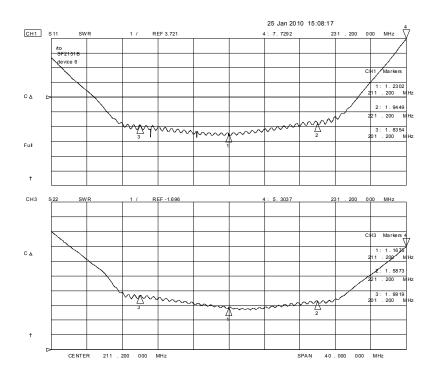
Filter Ultimate Rejection Plot



Filter Passband Group Delay and Amplitude Plots

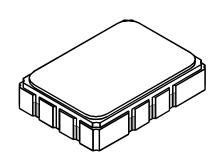


Filter Input and Output VSWR Plots (matched)



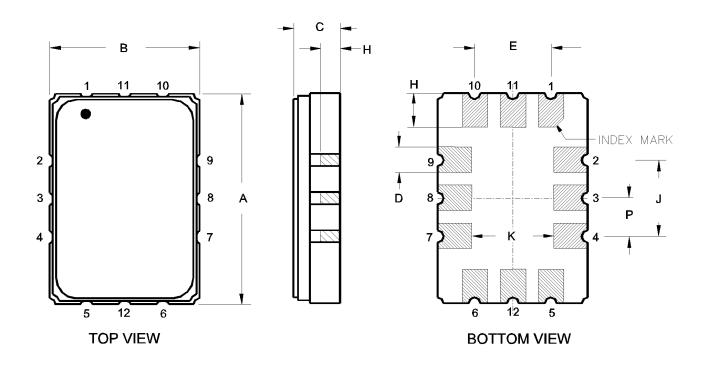
SMP-03-S Case

12-Terminal Ceramic Surface-Mount Case 5 x 7 mm Nominal Footprint

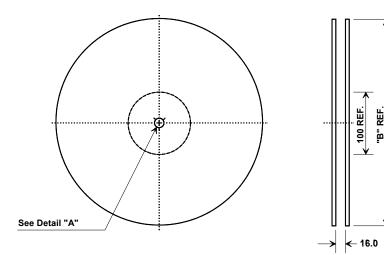


Case Dimen	Case Dimensions					
Dimension mm			Inches			
	Min	Nom	Max	Min	Nom	Max
Α	6.80	7.00	7.20	0.268	0.276	0.283
В	4.80	5.00	5.20	0.189	0.197	0.205
С		1.65	2.00		0.065	0.079
D		0.80				
E	2.41	2.54	2.67	0.095	0.100	0.105
Н	0.87	1.1	1.13	0.034	0.039	0.044
J		2.54				
K	2.87	3.00	3.13	0.113	0.118	0.123
Р	1.14	1.27	1.40	0.045	0.050	0.055

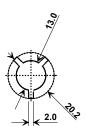
Materials				
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



Tape and Reel Specifications



6	'B "	Quantity Per Reel
Inches	millimeters	Quality 1 of 11001
7	178	500
13	330	2000



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions				
Ао	5.5 mm			
Во	7.5 mm			
Ко	2.0 mm			
Pitch	8.0 mm			
W	16.0 mm			

