Preliminary



RFM products are now Murata products.

SF2210D

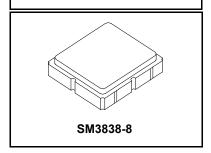
- · Low Insertion Loss
- 3.8 X 3.8 mm Surface-Mount Case
- Single-ended Input and Differential Output
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

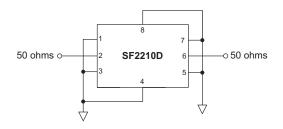
Rating	Value	Units		
Maximum Incident Power in Passband	+10	dBm		
Maximum DC Voltage Between any Two Terminals	3	VDC		
Storage Temperature Range in Tape and Reel	-30 to +85	°C		
Suitable for Lead-free Soldering - Maximum Soldering Temperature	260°C for 30 s			

427.8 MHz **SAW Filter**



Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency	f _C	1		427.8		MHz
Insertion Loss, 425.3 to 430.3 MHz	IL	1		2.0	3.6	dB
Passband Ripple, 425.3 to 430.3 MHz		1		0.5	2.1	dB _{P-P}
VSWR, 425.3 to 430.3 MHz				1.3:1	2.2:1	
Attenuation Referenced to 0 dB						
1.0 to 391.0 MHz		2	40	68		
391.0 to 406.5 MHz		2	31	66		
406.5 to 417.9 MHz		2	10	48		dB
461.0 to 481.0 MHz		2	35	65		
481.0 to 555.0 MHz		2	40	64		
Single-ended Source Impedance				50		ohm
Single-ended Load Impedance				50		ohm
Operating Temperature Range			+15		+35	°C
Case Style		SM3838-8 3.8 x 3.8 mm Nominal Footprint			nt	
Lid Symbolization (Y=year, WW=week, S=shift)		RFM 944 YWWS				



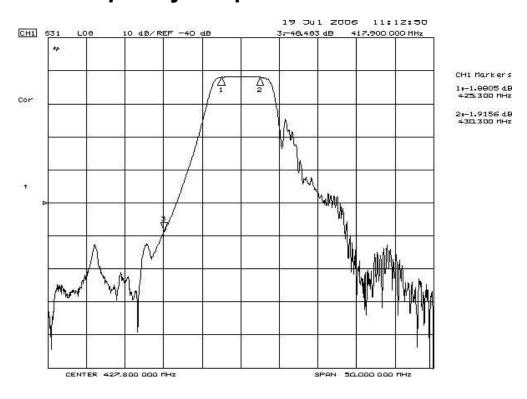


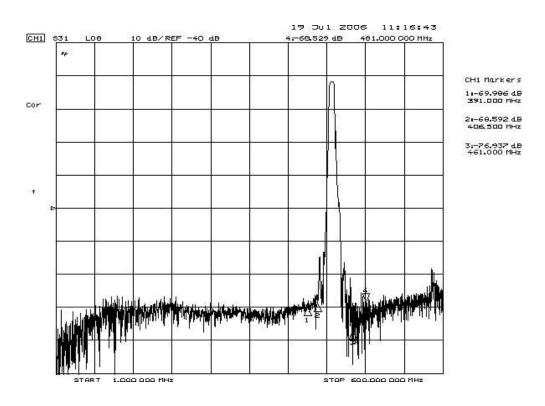
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50Ω and measured with 50Ω network analyzer. Rejection is measured as attenuation referenced to 0 dB. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.
- 2.
- 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.

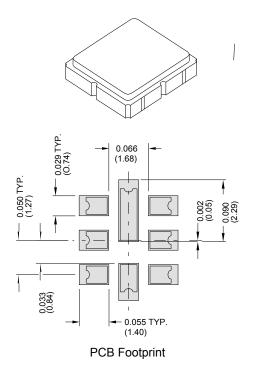
SF2210D Frequency Response





SM3838-8 Case

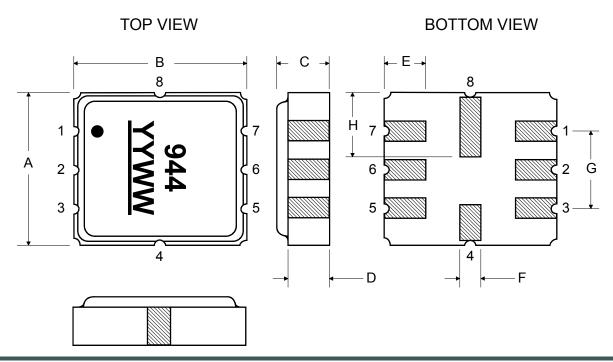
8-Terminal Ceramic Surface-Mount Case 3.8 X 3.8 mm Nominal Footprint



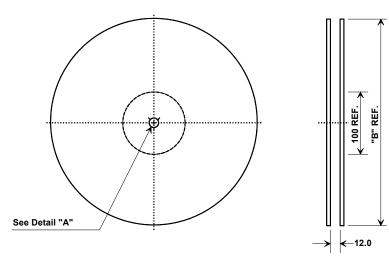
Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
Α	3.6	3.8	4.0	0.142	0.150	0.157
В	3.6	3.8	4.0	0.142	0.150	0.157
С	1.05	1.20	1.35	0.041	0.047	0.053
D	0.95	1.10	1.25	0.037	0.043	0.049
E	0.90	1.00	1.10	0.035	0.040	0.043
F	0.50	0.60	0.70	0.020	0.024	0.028
G	2.39	2.54	2.69	0.090	0.100	0.110
Н	1.40	1.75	2.05	0.055	0.069	0.080

	Connection	Terminals
Port 1	Input	2
Port 2	Output	6
	Ground	All Others

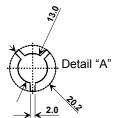
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



Tape and Reel Specifications



"B" No	minal Size	Quantity Per Reel
Inches	Millimeters	Lauring 1 0 1 11001
7	178	500 pcs
13	330	3,000 pcs



COMPONENT ORIENTATION

