Preliminary



- 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)

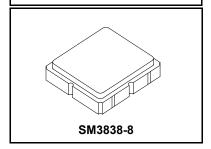
Absolute Maximum Ratings



Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage on any Non-ground Terminal	3	VDC
Storage Temperature Range in Tape and Reel -40 to +85 °C		°C
Suitable for Lead-free Soldering - Maximum Soldering Temperature	260°C for 30 s	

SF2218D

425 MHz **SAW Filter**



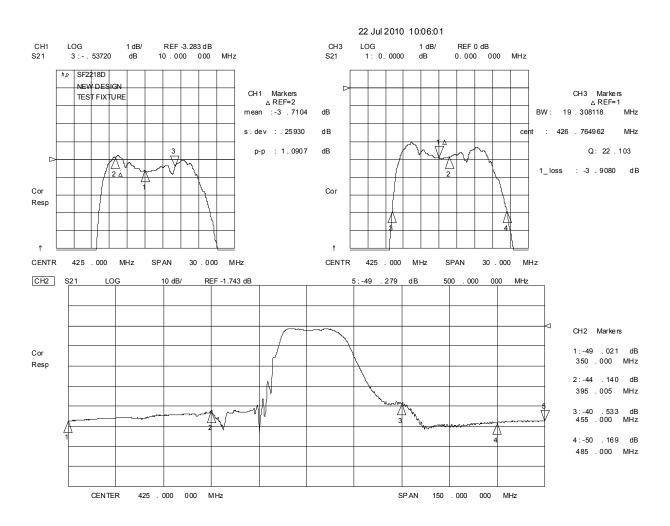
Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency	f _C	1		425		MHz
Insertion Loss, 425 MHz	IL	1			5.0	dB
3 dB Bandwidth	BW _{3dB}		10	19		MHz
Passband Amplitude Ripple, 420 to 430 MHz		1		1.0	2.1	dB _{P-P}
Attenuation Referenced to 0 dB:						
275 to 300 MHz		2	45			
299 to 335 MHz		2	40			
334 to 360 MHz		2	45			
359 to 385 MHz		2	35			
386 to 400 MHz		2	20			dB
400 to 410 MHz		2	40			
455 to 484 MHz		2	20			
485 to 494 MHz		2	35			
495 to 575 MHz		2	40			
Single-ended Source Impedance				50		ohm
Balanced Load Impedance				100		ohm
Operating Temperature Range			-20		+70	°C
Case Style		SM3838-8 3.8 x 3.8 mm Nominal Footprint		nt		
Lid Symbolization (Y=year, WW=week, S=shift)		RFM 956 YWWS				

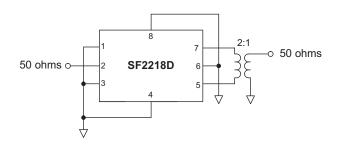
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- 2. 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.
- The design, manufacturing process, and specifications of this filter are subject to change. Tape and Reel Standard ANSI / EIA 481. 3.
- 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.

SF2218D Frequency Response

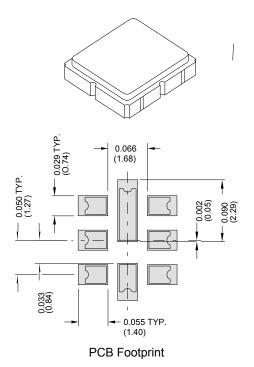


SF2218D Measurement Circuit



SM3838-8 Case

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



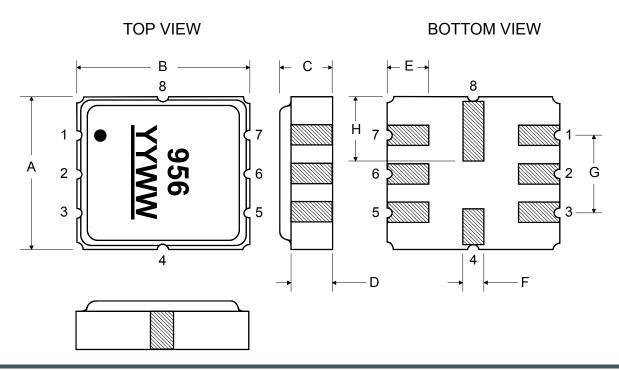
Case Dimensions

Dimension	mm			Inches			
Dilliension	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	

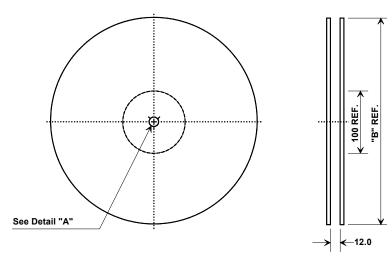
Electrical Connections

	Connection	Terminals		
Port 1	Single-ended Input	2		
Port 2	Balanced Output	5, 7		
	Ground	All Others		
Dot Indicates Pin 1				

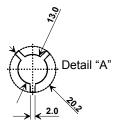
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



Tape and Reel Specifications



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



COMPONENT ORIENTATION

