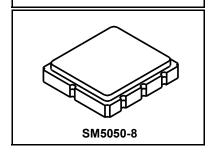


RoHS Compliance This component is compliant with RoHS directive. This component was always RoHS compliant from the first date of manufacture.

SF2289C

155 MHz **SAW Filter**



· Low Loss SAW Filter

• 5.0 x 5.0 mm Surface-mount Case

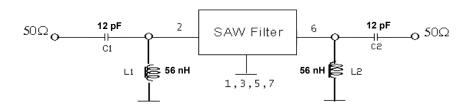
Absolute Maximum Ratings

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

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C	1		155		MHz
Insertion Loss, f _C ± 4 MHz	IL	1			6.5	dB
Rejection Referenced to 0dB:						
f _C -38.8 to f _C - 100 MHz		1, 3	50			dB
f _C +38.8 to f _C +100 MHz			42			
Operating Temperature Range	T _A	1	-40		+50	°C
Input Impedance at f _C			263 Ω 8.7 pF			
Output Impedance at f _C			685 Ω 9.1 pF			
Case Style		6	SM5050-8 5 x 5 mm Nominal Footprint		tprint	
Lid Symbolization		O	A36			

50 ohm Matching Network



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. 1.

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.

"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.

4.

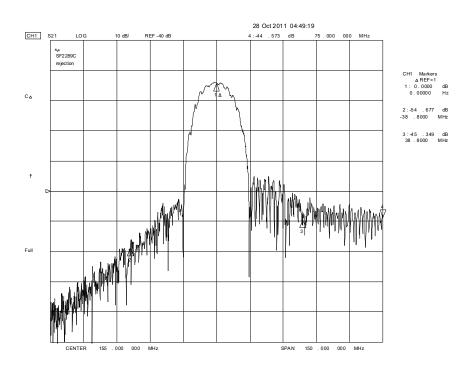
- Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.

8

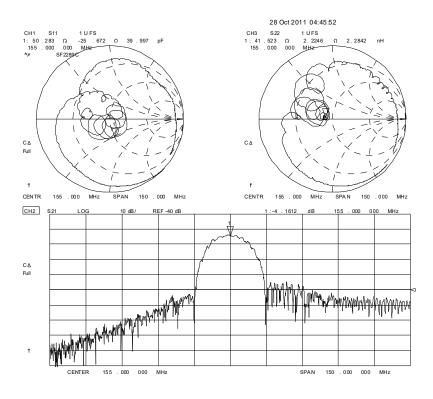
US and international patents may apply.

Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Filter Broadband Plot

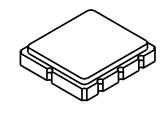


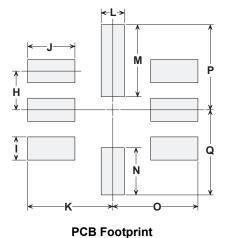
Filter Impedance and Passband Plot



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







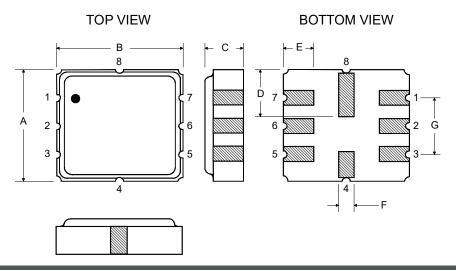
Dimension		mm			Inches	
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	4.80	5.00	5.20	0.189	0.197	0.205
В	4.80	5.00	5.20	0.189	0.197	0.205
С	1.30	1.50	1.70	0.050	0.060	0.067
D	1.98	2.08	2.18	0.078	0.082	0.086
E	1.07	1.17	1.27	0.042	0.046	0.050
F	0.50	0.64	0.70	0.020	0.025	0.028
G	2.39	2.54	2.69	0.094	0.100	0.106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

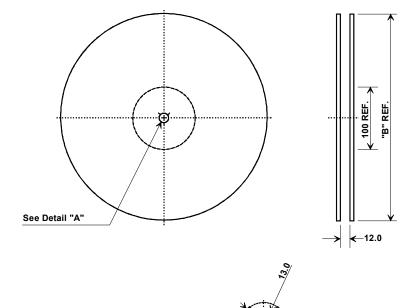
Materials				
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

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		

