

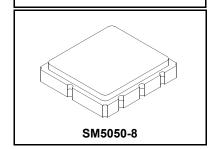


RFM products are now Murata products.

SF1189B-1

280.00 MHz

SAW Filter



· Designed for WLAN IF Applications

- Low Insertion Loss
- 5.0 x 5.0 x 1.7 mm Suface-mount Case
- · Single-ended Input
- Single-ended or 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	0	VDC			
Storage Temperature Range	-40 to +85	°C			
Suitable for Lead-free Soldering - Maximum Soldering Profile	260°C for 30 s				

Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	1		280.0		MHz
Passband	Insertion Loss at fc	IL	ı		8.3	10	dB
	3 dB Bandwidth	BW ₃	4.0	18.5	19.8		MHz
	Amplitude Ripple, fc ±9.0 MHz		1, 2		2.0	3.0	dB _{P-P}
	Group Delay Variation, fc ±9.0	GDV			60	125	ns _{P-P}
Rejection	fc -60 to fc -40 MHz		1, 2, 3	40	46		
	fc -40 to fc -22 MHz			37	39		
	fc -22 to fc -16 MHz			30	39		dB
	fc +16 to fc +22 MHz			25	33		ub
	fc +22 to fc +40 MHz			34	36		
	fc +40 to fc +60 MHz			40	45		
Operating Temperature Range		T _A	1	-10		+85	°C

Differential Input / Output Impedance Match	External L-C
Case Style	SM5050-8 5 X 5 mm Nominal Footprint
Lid Symbolization (YY=year, WW=week, S=shift)	457, YYWWS

Electrical Connections

C	Connection	Terminals
Port 1	Single-ended Input	3
Port 2 Single-ended Oupur		7
	Differential Output	6,7
Ground		All others



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 ana-
- lyzer. Unless noted otherwise, all frequency specifications are referenced to the 2. 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."
- 5. The design, manufacturing process, and specifications of this filter are
 - 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.

Amplitude Response

Note: Insertion loss of balun transformer -0.7 dB

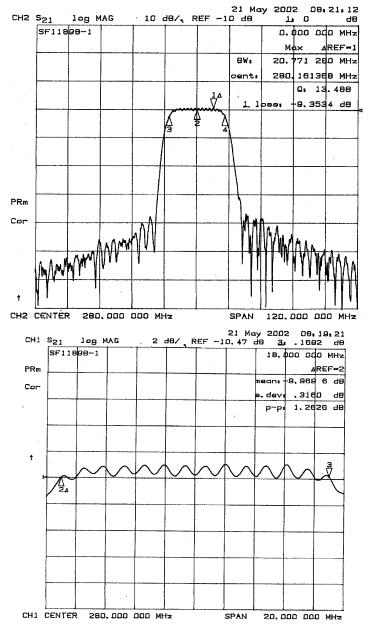
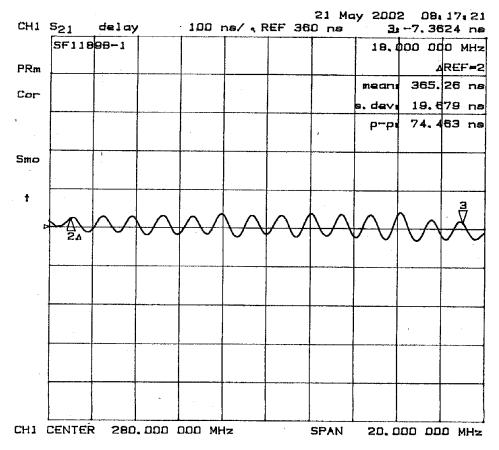
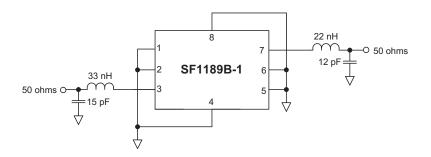


Fig-1 S21 Response

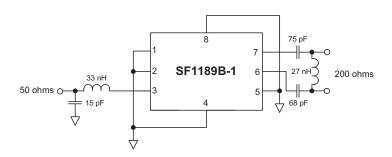
Group Delay Response



Matching for Single-ended Input and Output

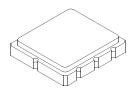


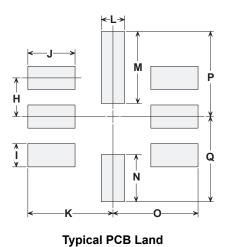
Matching for Single-ended Input, Balanced Output



SM5050-8 Ceramic Surface-mount Case 5.0 X 5.0 mm Nominal Footprint

Case Dimensions

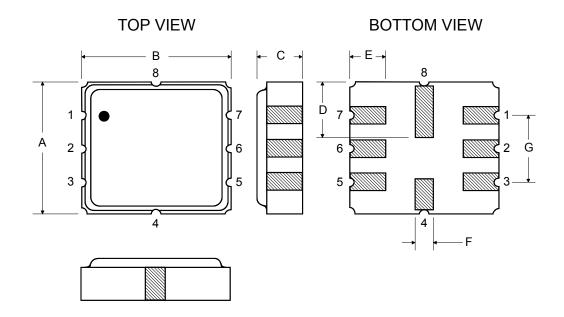




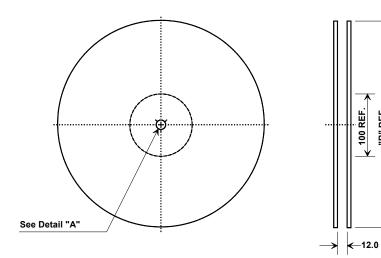
	mm		Inches			
Dimension	Min	Nom	Max	Min	Nom	Max
Α	4.80	5.00	5.20	0.189	0.197	0.205
В	4.80	5.00	5.20	0.189	0.197	0.205
С	1.30	1.50	1.70	0.050	0.060	0.067
D	1.98	2.08	2.18	0.078	0.082	0.086
E	1.07	1.17	1.27	0.042	0.046	0.050
F	0.50	0.64	0.70	0.020	0.025	0.028
G	2.39	2.54	2.69	0.094	0.100	0.106
Н		1.27			0.050	
1		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

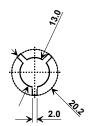
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	g 2.0 to 3.0 µm Nickel			
Body	Body Al ₂ O ₃ Ceramic			
Pb Free				



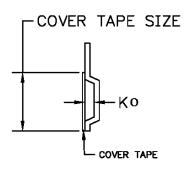
Tape and Reel Specifications



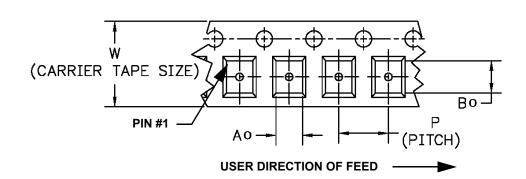
"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



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			



单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)