

SF2006C

190.00 MHz

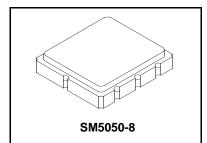
SAW Filter

- SAW Filter for W-CDMA
- 5.0 X 5.0 X 1.7 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)



Maximum Rating

Rating	Value	Units
Input Power Level	10	dBm
Operating Temperature Range	-30 to +70	°C
Storage Temperature Range in Tape and Reel	-30 to +70	°C



Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			190		MHz
Insertion Loss	IL _{MIN}			8.0	10	dB
6 dB Bandwidth	BW		4.8	5.73		MHz
Group Delay Ripple				70	150	ns
RMS Phase Linearity, f _C ± 2 MHz				6	8	deg
Attenuation Referended to IL _{MIN:}						
170 to 180 MHz, or (f_C - 20 MHz) to (f_C - 10 MHz)			27	34		
180 to 185.5 MHz, or (f $_{\rm C}$ -10 MHz) to (f $_{\rm C}$ -4.5 MHz)			25	31		
194.5 to 200 MHz, or (f_C + 4.5 MHz) to (f_C + 10 MHz)			25	30		dB
200 to 210 MHz, or (f_C + 10 MHz) to (f_C + 20 MHz)			27	33		
Ultimate Rejection				50		
Lid Symbolization (Y=year, WW=week, S=shift)	RFM 734 YWWS			· ·		

Electrical Connections

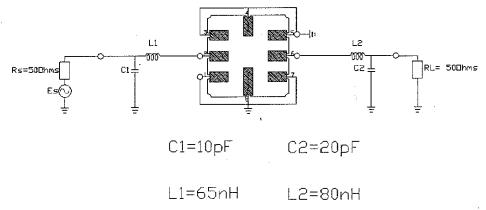
	Connection	Terminals			
Port 1	Input	2			
Port 2	Output	6			
	Ground	All others			
Dot indicates Pin 1					

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.
- 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
- "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.

 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
- US and international patents may apply.
 RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.

D. MATCHING CONFIGURATION:



Note1: The values of components for matching circuit will vary slightly due to parasitic capacitor of PCB

E. FREQUENCY CHRACTERISTICS:

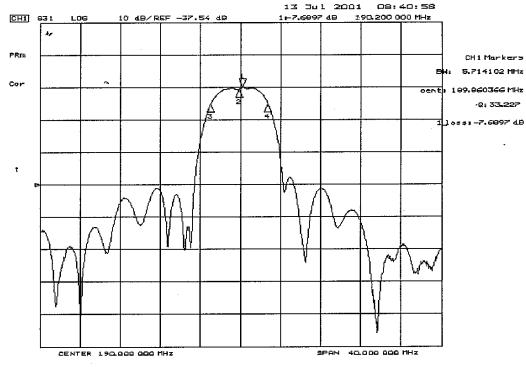
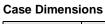
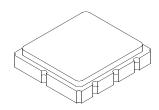
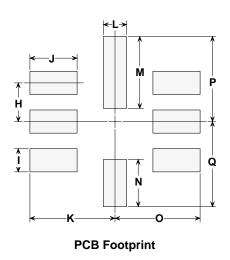


Fig-1 S21 Response

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



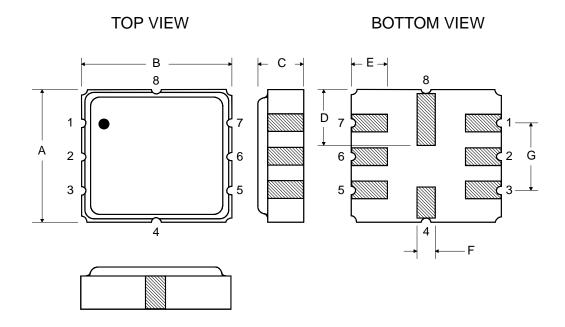




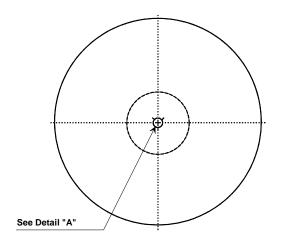
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	4.80	5.00	5.20	0.189	0.197	0.205
В	4.80	5.00	5.20	0.189	0.197	0.205
С	1.30	1.50	1.70	0.050	0.060	0.067
D	1.98	2.08	2.18	0.078	0.082	0.086
E	1.07	1.17	1.27	0.042	0.046	0.050
F	0.50	0.64	0.70	0.020	0.025	0.028
G	2.39	2.54	2.69	0.094	0.100	0.106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

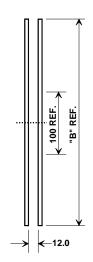
Case Materials

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			

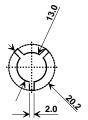


Tape and Reel Specifications





"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			

