

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

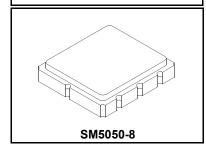


Maximum Rating

Rating	Value	Units
Input Power Level	10	dBm
Operating Temperature Range	-10 to +50	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C

SF2320C

163.00 MHz **SAW Filter**



Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			163		MHz
Insertion Loss within f _C ± 4 MHz	IL _{MIN}			4.5	6.5	dB
Amplitude Ripple f _C ± 4 MHz					2.1	dB
Attenuation Referended to 0 dB						
(f _C - 100 MHz) to (f _C - 38.8 MHz)			50			
$(f_C + 38.8 \text{ MHz}) \text{ to } (f_C - 100 \text{ MHz})$			42			
						dB
Ultimate Rejection						1
Lid Symbolization (Y=year, WW=week, S=shift)		RFM A79 YWWS				

Electrical Connections

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



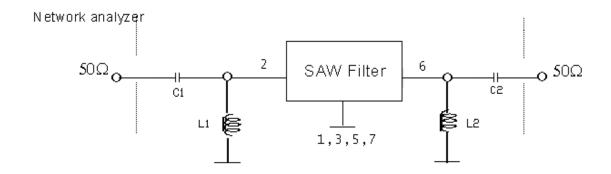
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 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.
- Únless 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.

 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.

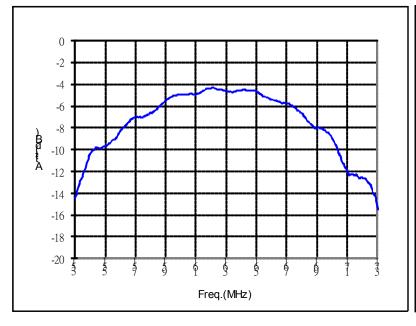
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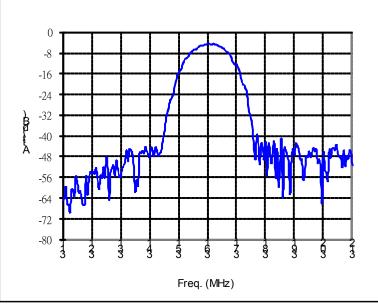
D. MEASUREMENT CIRCUT



C1 = 12 pF L1 = 47 nH
$$C2 = 8 pF L2 = 47 nH$$

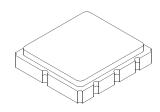
E. FREQUENCY CHARACTERISTICS:

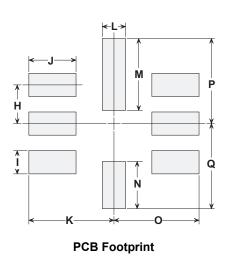




SM5050-8 Surface-Mount 8-Terminal Ceramic Case 5.0 X 5.0 mm Nominal Footprint



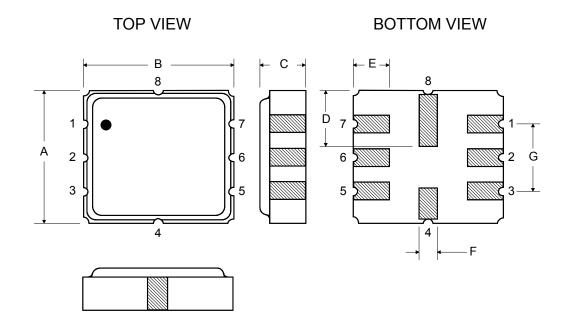




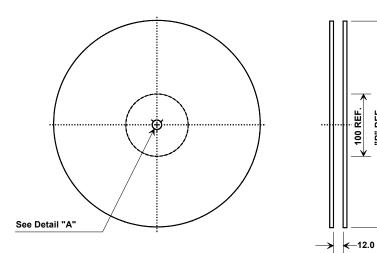
Dimension	mm			Inches		
Difficusion	Min	Nom	Max	Min	Nom	Max
Α	4.80	5.00	5.20	0.189	0.197	0.205
В	4.80	5.00	5.20	0.189	0.197	0.205
С	1.30	1.50	1.70	0.050	0.060	0.067
D	1.98	2.08	2.18	0.078	0.082	0.086
E	1.07	1.17	1.27	0.042	0.046	0.050
F	0.50	0.64	0.70	0.020	0.025	0.028
G	2.39	2.54	2.69	0.094	0.100	0.106
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	
P		2.79			0.110	
Q		2.79			0.110	

Case Materials

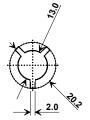
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



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

