Preliminary



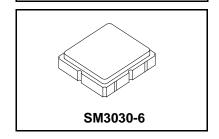
SF1182B

- RF Filter for Mobile Communication Applications
- Low Insertion Loss
- 3.0 x 3.0 x 1.3 mm Surface-Mount Case
- No Matching Circuit Required

836.5 MHz SAW Filter

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	0	VDC
Storage Temperature Range	-40 to +85 °C	
Max Soldering Profile	265°C for 10 s	



Electrical Characteristics

Ch	aracteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Operating Frequency	/	f _C	1		836.5		MHz
Passband	Insertion Loss across 824-849	IL			2.1	3.0	dB
	Amplitude Ripple p-p across 824-849				1.2	2.0	uБ
Attenuation	DC ~ 800 MHz		1, 2, 3	23	26		
	869 ~ 894 MHz			29	32		dB
	978 ~ 1006 MHz			25	28		uБ
	1050 ~ 2500 MHz		1	15	18		
VSWR across 824-849 MHz					1.8	2.3	
Source impedance		Z _S			50		Ω
Load impedance		Z_{L}			50		Ω
Operating Temperature		T_A	1	-30		+85	°C

Single Ended Input / Output, Impedance match	No matching network required for operation at 50 ohms
Case Style	SM3030-6 3 x 3 mm Nominal Footprint
Lid Symbolization (YY=year, WW=week, D=day)	448 YWWS

Electrical Connections

Connection	Terminals
Input	2
Output	5
Ground	All others

pin 2 pin 5 SAW Filter TOP VIEW All Others

Notes:

- 1. 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. 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.
- 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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- 10. Electrostatic Sensitive Device. Observe precautions for handling.

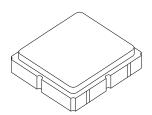


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E-mail: info@rfm.com http://www.rfm.com SF1182B-060206

SM3030-6 Case

6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint

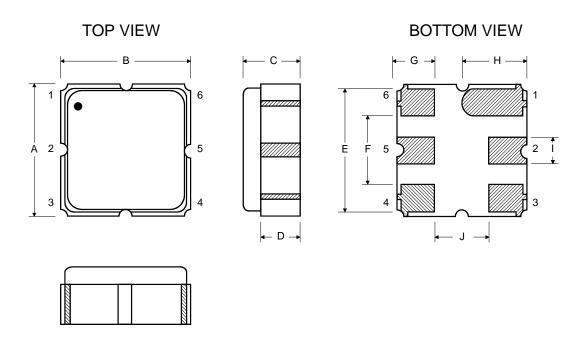


Case Dimensions

Dimension		mm			Inches	
Difficusion	Min	Nom	Max	Min	Nom	Max
Α		3.0			0.118	
В		3.0			0.118	
С		1.3			0.051	
D		0.9			0.035	
E		2.54			0.100	
F		1.6			0.063	
G		0.85			0.033	
Н		1.5			0.059	
I		0.6			0.024	
J		1.3			0.051	

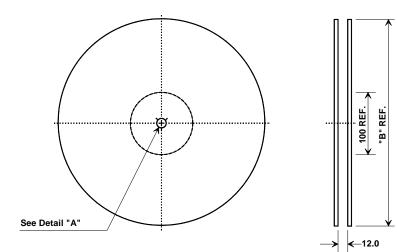
Electrical Connections

Connection		Terminals	
Port 1	Single Ended Input	2	
Port 2	Single Ended Output	5	
Ground		All others	
Single Ended Operation Only			
Dot indicates Pin 1			

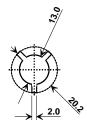


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Tape and Reel Specifications

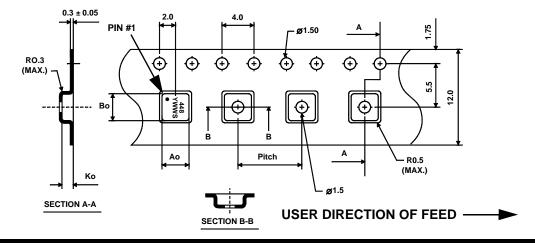


"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	1000
13	330	3000



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions				
Ao	3.35 mm			
Во	3.35 mm			
Ко	1.4 mm			
Pitch	8.0 mm			
w	12.0 mm			



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