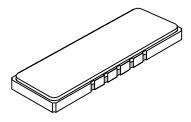
SF1101A 85.38 MHz SAW Filter



PRELIMINARY

- Designed for CDMA Receivers
- Low Insertion Loss
- Hermetic SMP-75 Surface-Mount Case
- Unbalanced Input and Output



Characteristic			Min	Тур	Max	Units	Notes
Nominal Center Frequency		fc	85.380			MHz	1
Passband	Insertion Loss at fc	IL		10.5	12.0	dB	
	5 dB Passband	BW_5	±630			kHz	1, 2
	Amplitude Ripple over fc \pm 300 kHz				0.7	dB _{P-P}	
	Phase Linearity over fc ±500 kHz				3	°rms	
Rejection	fc-5.0 to fc-0.9 and fc+0.9 to fc+5.0 MHz		33			dB	1, 2, 3
	At fc±5.0 MHz		40				
	Ultimate			60			
Operating Temperature Range			-30		+80	°C	1
Impedance Matching to 50 Ω unbalanced		External L-C					
Case Style		SMP-75 19 x 6.5 mm Nominal Footprint					
Lid symbolization (YY = year, WW = week)		RFM SF1101A YYWW					

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Max Soldering Profile	265°C for 10 s	

Electrical Connections

Connection	Terminals		
Port 1 Hot	10		
Port 1 Gnd Return	1		
Port 2 Hot	5		
Port 2 Gnd Return	6		
Case Ground	All others		

Notes:

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2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.

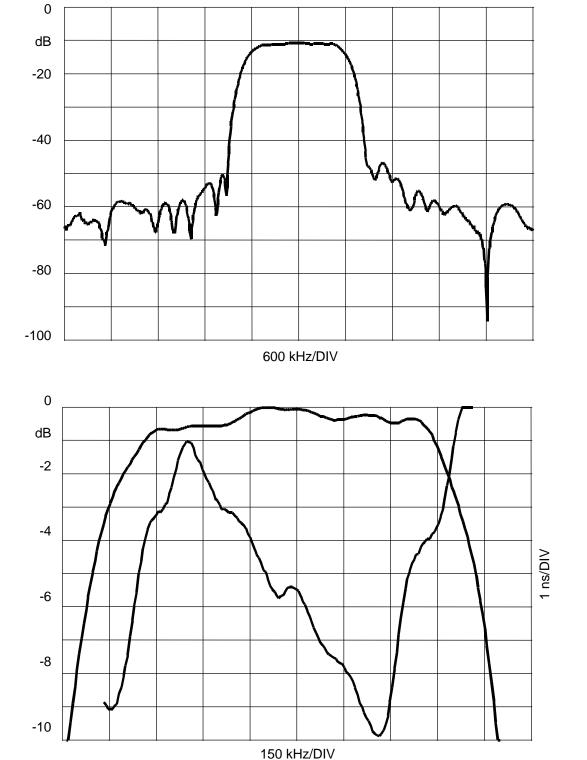
- 4. "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."
- 5. The design, manufacturing process, and specifications of this filter are subject to change.
- 6. Either Port 1 or Port 2 may be used for either input or output in 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.
- 7. US and international patents may apply.
- 8. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.
- 9. ©Copyright 1999, RF Monolithics Inc.
- 10. Electrostatic Sensitive Device. Observe precautions for handling.



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^{1.} Unless noted otherwise, all specifications apply *over the operating temperature range* with filter soldered to the specified demonstration board with impedance matching to 50Ω and measured with 50Ω network analyzer.

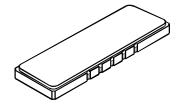
Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.



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10-Terminal Ceramic Surface-Mount Case 19 x 6.5 mm Nominal Footprint



Dimension	mm		Inches			
Dimension	Min	Nom	Max	Min	Nom	Max
А	18.80	19.00	19.30	0.740	0.748	0.760
В	6.30	6.50	6.80	0.248	0.256	0.268
С		1.75	2.00		0.069	0.079
D		2.29			0.090	
E		1.02			0.040	
Н		0.76			0.030	
Р		1.905			0.075	

