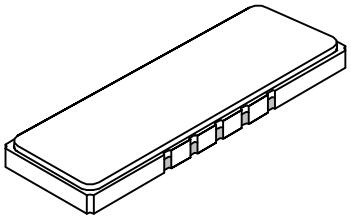
SF1101A 85.38 MHz SAW Filter

PRELIMINARY

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



Characteristic		Sym	Min	Typ	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 ±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:
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.
3. 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.
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.
10. Electrostatic Sensitive Device. Observe precautions for handling.

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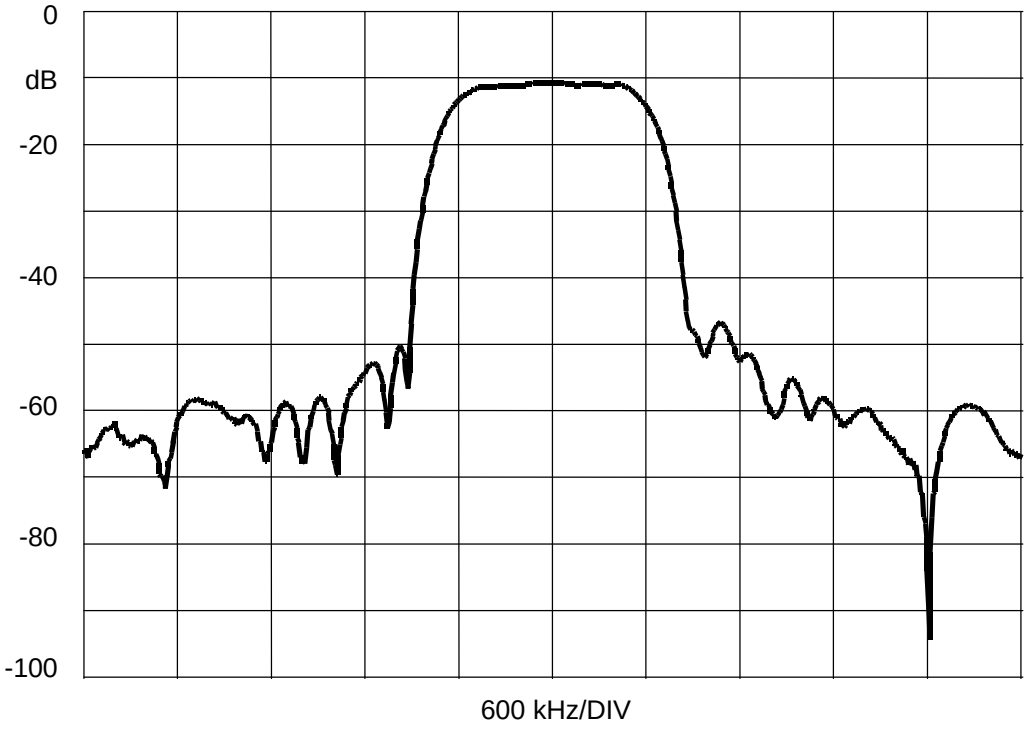

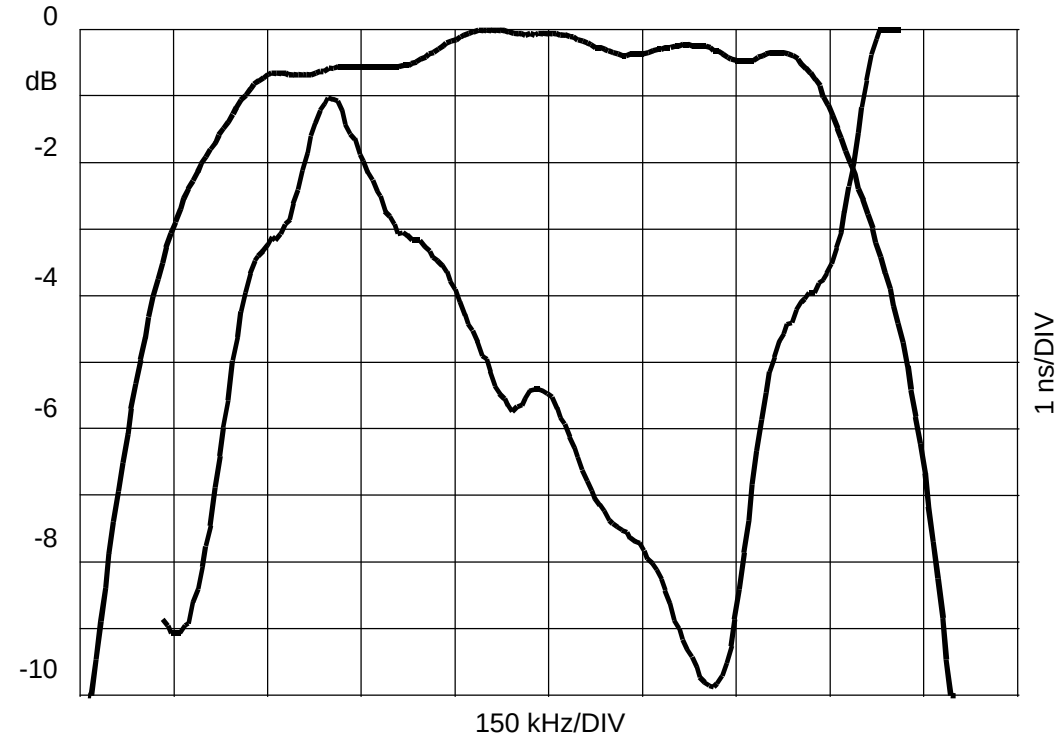

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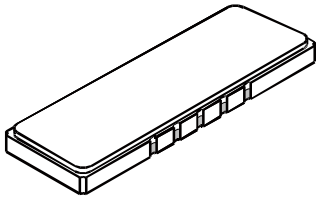
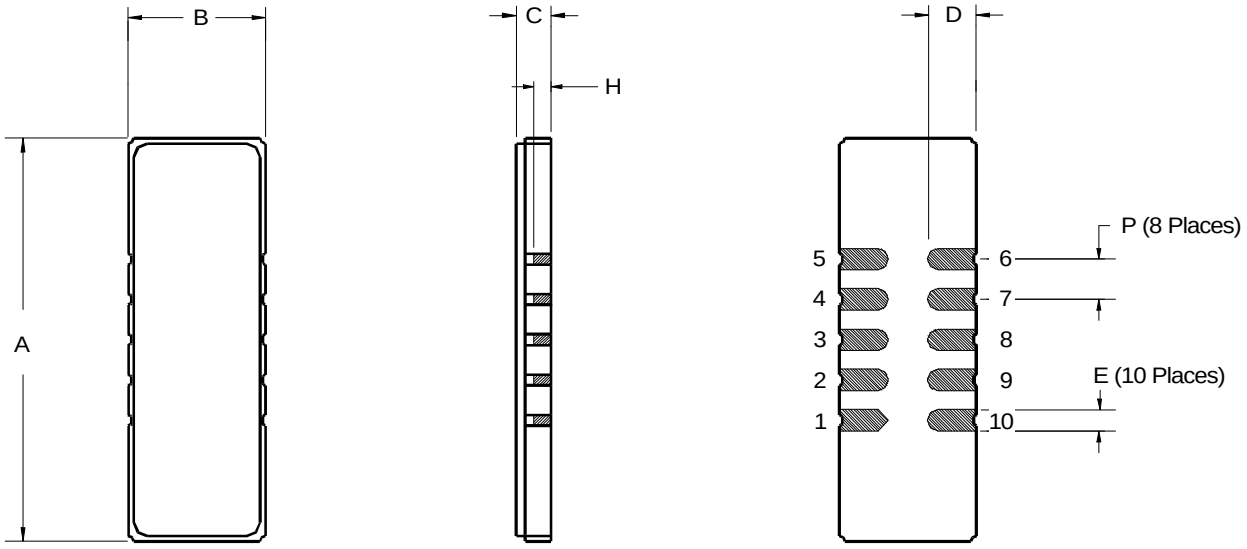
SMP-75 Case

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



Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	18.80	19.00	19.30	0.740	0.748	0.760
B	6.30	6.50	6.80	0.248	0.256	0.268
C		1.75	2.00		0.069	0.079
D		2.29			0.090	
E		1.02			0.040	
H		0.76			0.030	
P		1.905			0.075	



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