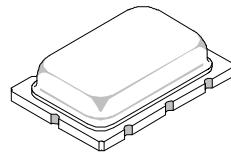


SF1084B 299 MHz SAW Filter



- Designed for GSM BTS Transmitter Applications
- Low Insertion Loss and Small Size
- 8.5 x 5.8 mm Surface-Mount Case
- Unbalanced Input and Output



Characteristic	Sym	Min	Typ	Max	Units	Notes
Nominal Center Frequency	fc		299.000		MHz	1
Passband	Insertion Loss at fc					
	IL		6	8.0	dB	
	3 dB Passband					
	BW ₃	±275			kHz	1, 2
Rejection	Amplitude Ripple over fc ±75 kHz			0.3	dB _{P-P}	
	Group Delay Variation over fc ±75 kHz			100	ns _{P-P}	
	100 kHz to fc-6.0 MHz and fc+6.0 to 540 MHz	20	40		dB	1, 2, 3
Ultimate			>40			
Operating Temperature Range	T _A	-40		+85	°C	1
Impedance Matching to 50 Ω unbalanced					External L-C	
Case Style					SM8558-8 8.5 x 5.8 mm Nominal Footprint	
Lid Symbolization (YY=year, WW=week, XXX=lot code)					RFM SF1084B YYWWXXX	

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	235°C for 90 s	

Electrical Connections

Connection	Terminals
Port 1 Hot	7
Port 1 Gnd Return	1
Port 2 Hot	3
Port 2 Gnd Return	5
Case Ground	All Others

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 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.
- RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.
- ©Copyright 1999, RF Monolithics Inc.
- Electrostatic Sensitive Device. Observe precautions for handling.

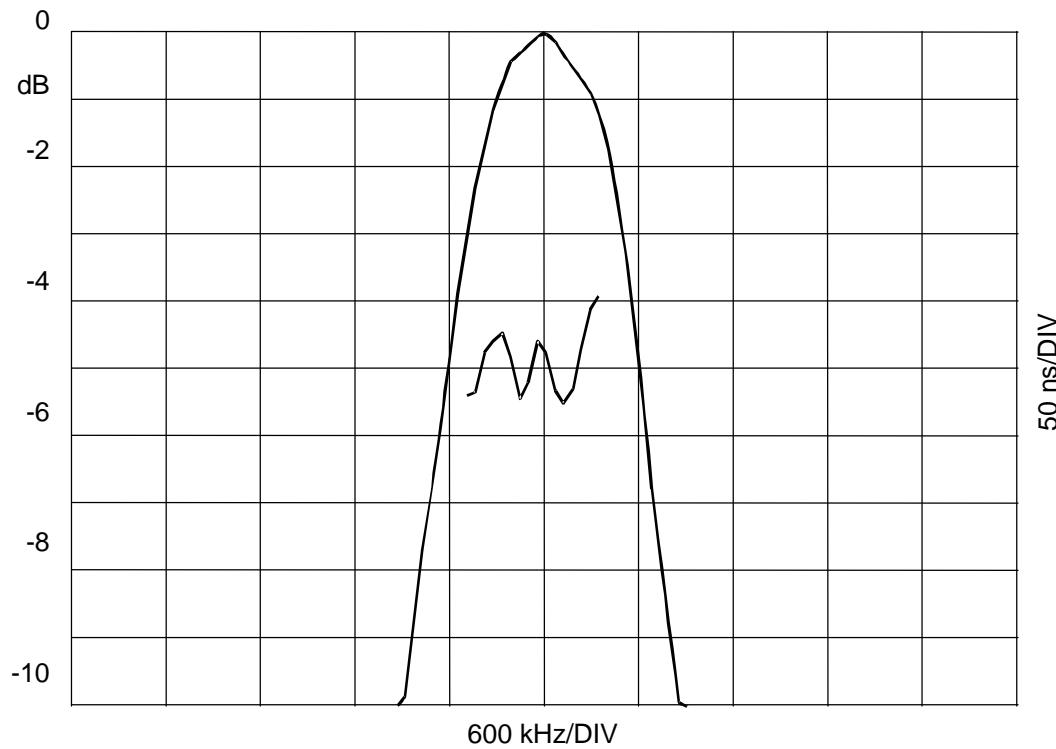
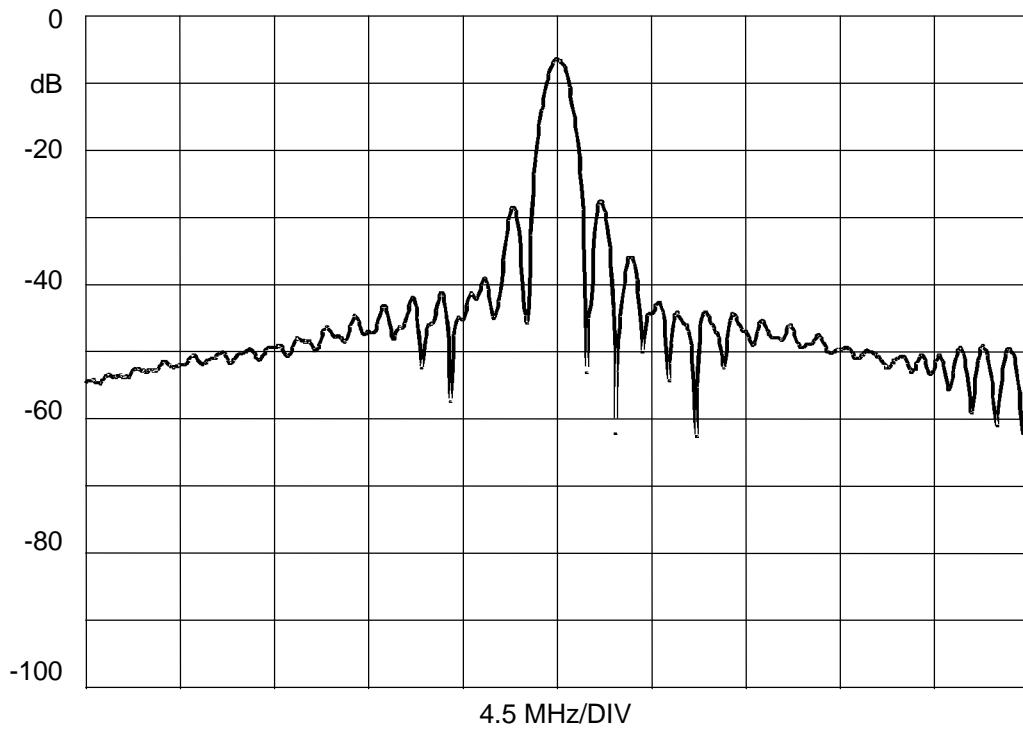


RF Monolithics, Inc.
 4347 Sigma Road
 Dallas, Texas 75244
 USA

Phone: +1(972)233-2903
 Fax: +1(972)387-8148
 e-mail: info@rfm.com
 Home page: www.rfm.com

European Sales Office
 44 1963 251383
 44 1963 251510

SF1084B 299 MHz SAW Filter

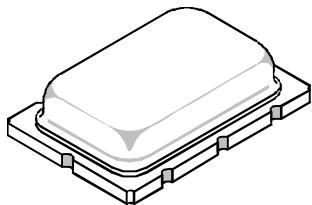


RF Monolithics, Inc.
4347 Sigma Road
Dallas, Texas 75244
USA

Phone: +1(972)233-2903
Fax: +1(972)387-8148
e-mail: info@rfm.com
Home page: www.rfm.com

European Sales Office
44 1963 251383
44 1963 251510

8-Terminal Ceramic Surface-Mount Case 8.5 x 5.8 mm Nominal Footprint



Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	8.26	8.51	8.76	0.325	0.335	0.345
B	5.59	5.84	6.10	0.220	0.230	0.240
C		1.70	2.00		0.067	0.079
D		0.79			0.031	
E		1.14			0.045	
F		1.98			0.078	
H		0.51			0.020	
M		0.76			0.030	
N		0.51			0.020	
P		2.54			0.100	
R		0.51			0.020	

