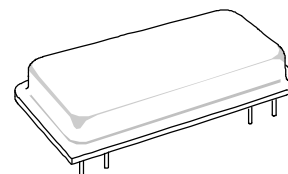


SF1065-T 167 MHz SAW Filter



- Designed for GSM DCS Receiver IF Applications
- Simple to use – No External Impedance Matching
- Internal Impedance Matching to 50 Ω
- Unbalanced Input and Output



Characteristic	Sym	Min	Typ	Max	Units	Notes
Nominal Center Frequency	fc		167.000		MHz	1
Passband	Insertion Loss at fc		8	9.0	dB	1, 2
		1 dB Passband	BW ₁	± 70		
		3 dB Passband	BW ₃			
	Group Delay Variation over fc ± 180 kHz	GDV		750	ns _{p-p}	
Rejection	fc-400 to fc-225 and fc+225 to fc+400 kHz		5		dB	1, 2, 3
	fc-600 to fc-400 and fc+400 to fc+600 kHz		15			
	fc-800 to fc-600 and fc+600 to fc+800 kHz		40			
	fc+800 kHz to fc+1500 kHz		45			
	fc-26 MHz to fc-0.8 MHz and fc+1.5 to fc+26 MHz		50			
Operating Temperature Range	T _A	-10		+85	$^{\circ}$ C	1

Impedance Matching to 50 Ω unbalanced	Internal – L-L Match Included
Case Style	DIP18-8 27.2 x 12.6 mm Nominal Footprint
Lid Symbolization (YY = year, WW = week)	RFM SF1065T 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	$^{\circ}$ C
Max Soldering Profile	265 $^{\circ}$ C for 10 s	

Electrical Connections (See note 3)

Connection	Terminals
Port 1 Hot	1
Port 1 Gnd Return	18
Port 2 Hot	10
Port 2 Gnd Return	9
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 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. See Application Note No. 42 for details. All "NC" or "no connection pins should be grounded.
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.

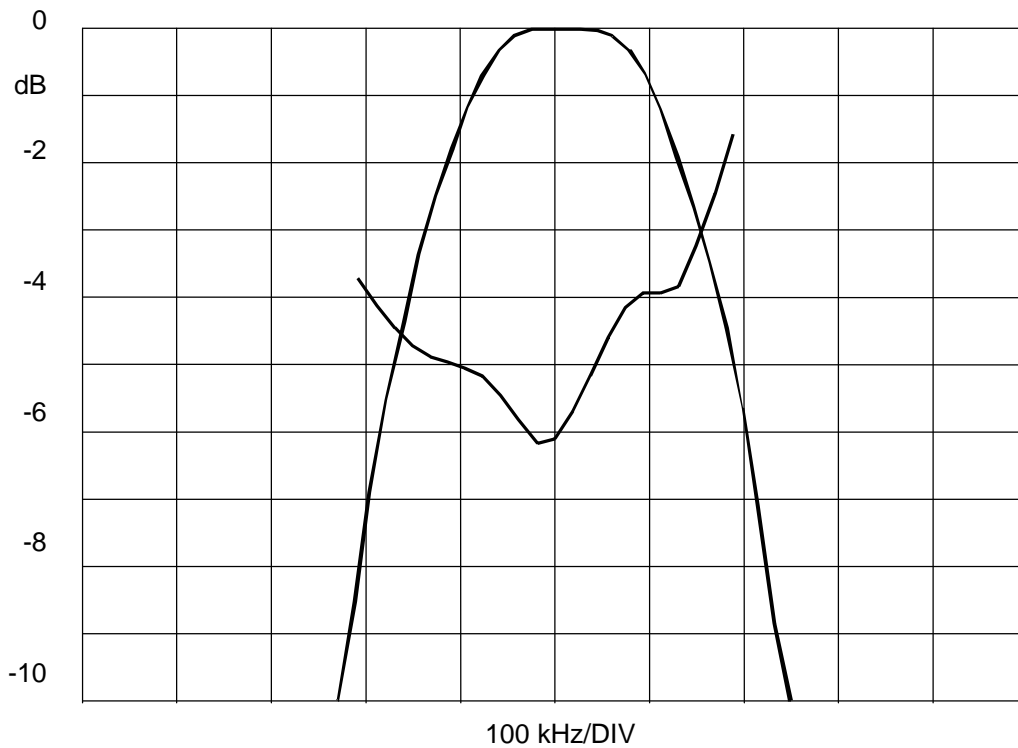
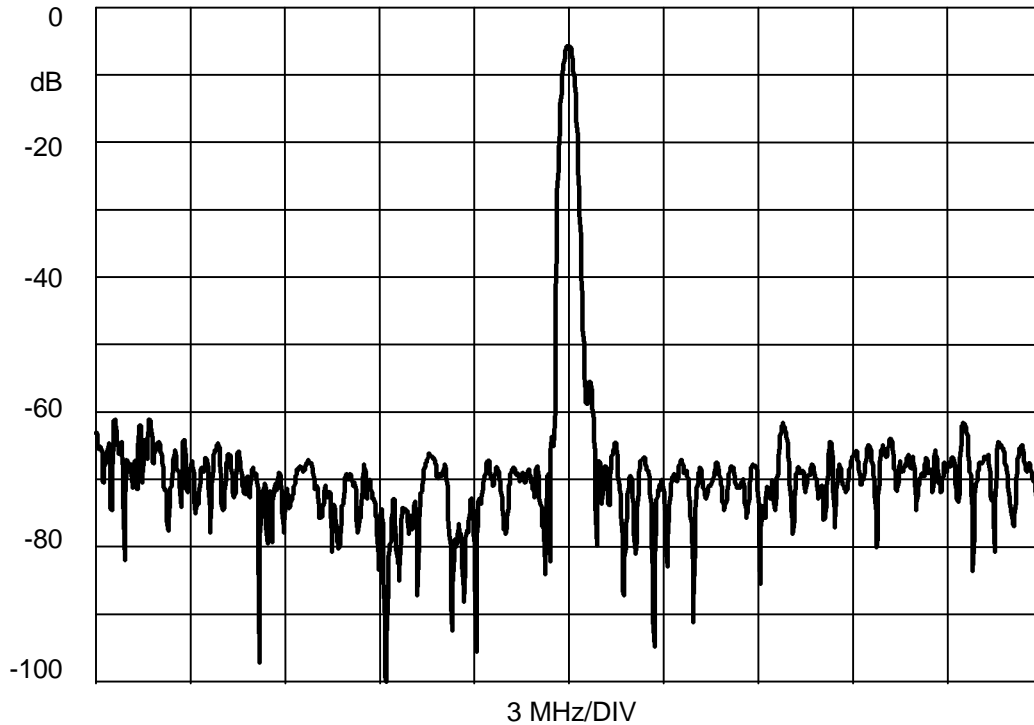


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SF1065-T 167 MHz SAW Filter

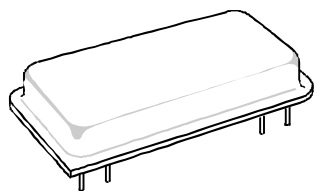


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Metal 8-Pin DIP in 18-Pin Configuration 27.2 x 12.6 mm Nominal Footprint



Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A		27.18	27.56		1.070	1.085
B		12.55	12.95		0.494	0.510
C		3.56	5.08		0.140	0.200
D	0.41	0.48	0.51	0.016	0.019	0.020
E		20.32			0.800	
F		7.62			0.300	
K	3.30	3.81	6.73	0.130	0.150	0.265
L	1.37	1.45	1.52	0.054	0.057	0.060
P		2.54			0.100	
R		2.03			0.080	

