RF1046 1333 MHz SAW Filter



- Designed for Front-End of RF Detector
- Simple External Impedance Matching
- Hermetic TO39-3 Case
- Unbalanced Input and Output



See Associated Plots

Characteristic		Sym	Min	Тур	Max	Units	Notes
Nominal Center Frequency		fc	1333.000		MHz	1	
Passband	Insertion Loss at fc	IL		6	8.0	dB	
	1 dB Passband	BW ₁	±175			kHz	1, 2
	3 dB Passband	BW ₃		±850			
	Group Delay Variation over fc ±175 kHz	GDV		200	1000	ns _{P-P}	
Rejection	< fc-140 MHz and > fc+140 MHz		55	63		dB	1, 2, 3
Operating Temperature Range		T _A	-55		+85	°C	1

Impedance Matching to 50 Ω unbalanced	External L-C			
Case Style	TO39-3 9.3 mm Diameter Nominal Footprint			
Lid Symbolization	RFM RF1046 Lot-Code			

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	-55 to +85	°C		
Max Soldering Profile	265°C for 10 s			

Electrical Connections (See note 3)

Connection	Terminals		
Port 1 Hot	1 (near tab)		
Port 2 Hot	2		
Case Ground	3		

Notes

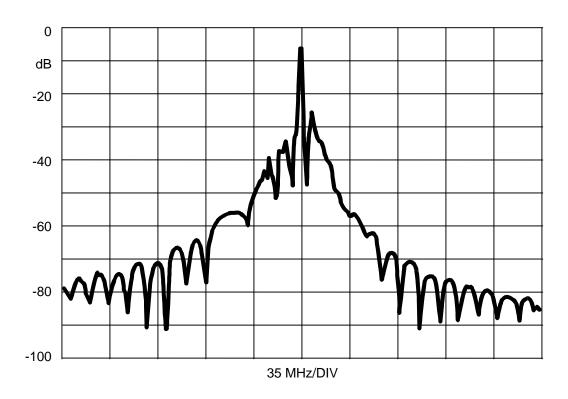
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- 2. Unless noted otherwise, all frequency specifications are referenced to the nominal 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. All "NC" or "no connection" terminals 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.
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- 10. Electrostatic Sensitive Device. Observe precautions for handling.

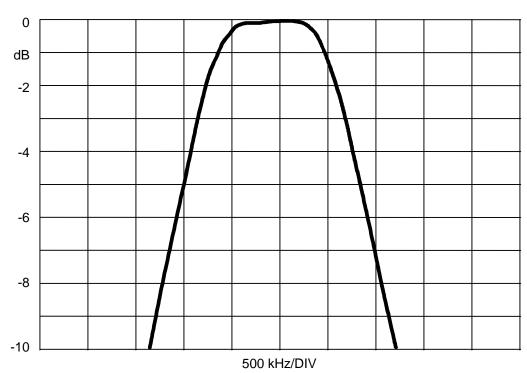


RF Monolithics, Inc.Phone: +1(972)233-2903 **European Sales Office**4347 Sigma Road
Fax: +1(972)387-8148

Dallas, Texas 75244 e-mail: info@rfm.com
USA Home page: www.rfm.com

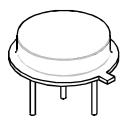




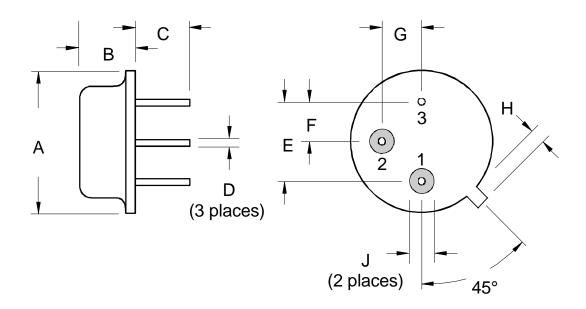




3-Lead, Low-Profile Metal TO39 9.3 mm Dia Nominal Footprint



Dimensions	mm		Inches		
	Min	Max	Min	Max	
Α		9.30		0.366	
В		3.18		0.125	
С	2.50	3.50	0.098	0.138	
D	0.46 Nominal		0.018 Nominal		
E	5.08 Nominal		0.200 Nominal		
F	2.54 Nominal		0.100 Nominal		
G	2.54 Nominal		0.100 Nominal		
Н		1.02		0.040	
J	1.40		0.055		



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