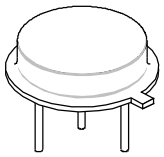
RF1046 1333 MHz SAW Filter

- *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	Typ	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:
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. 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.
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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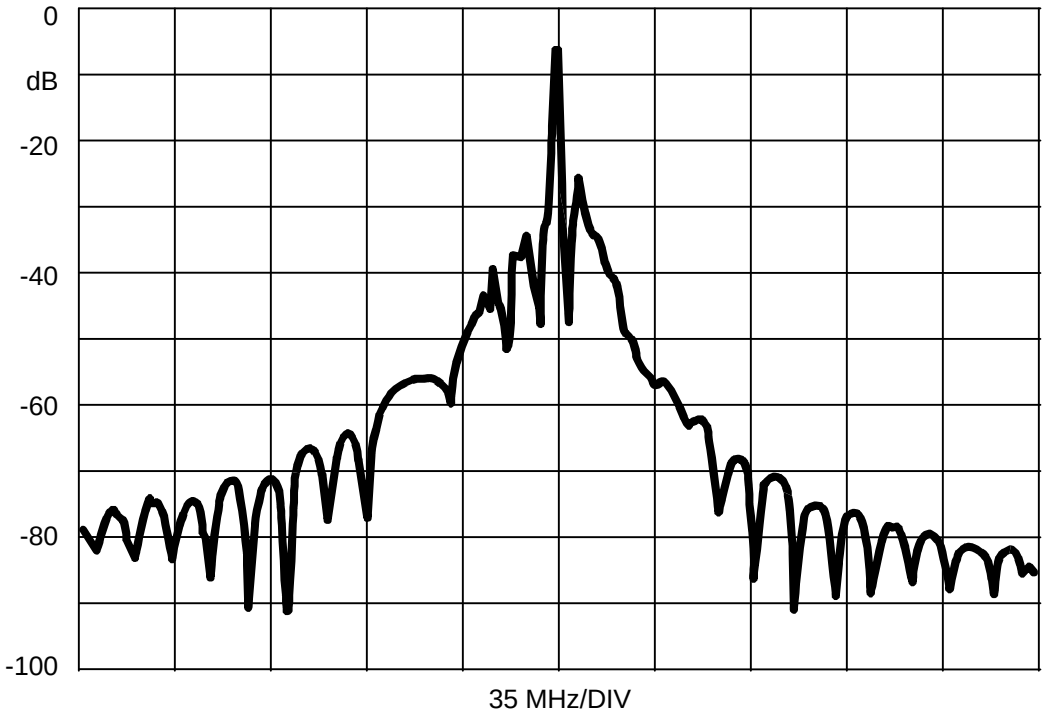

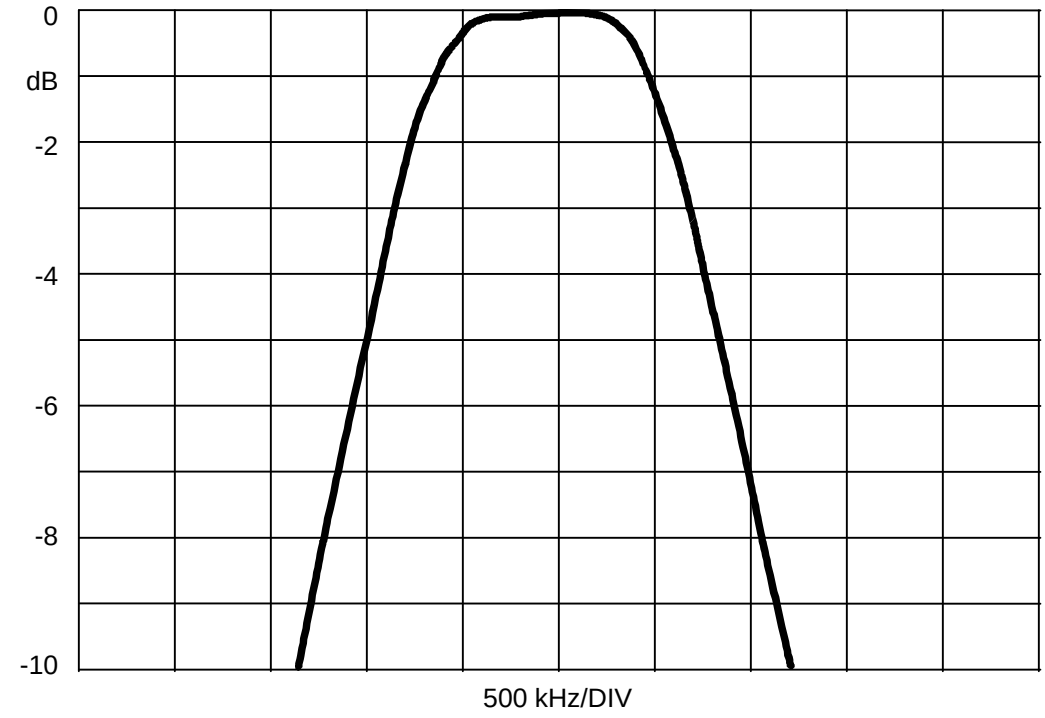

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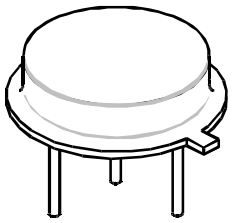
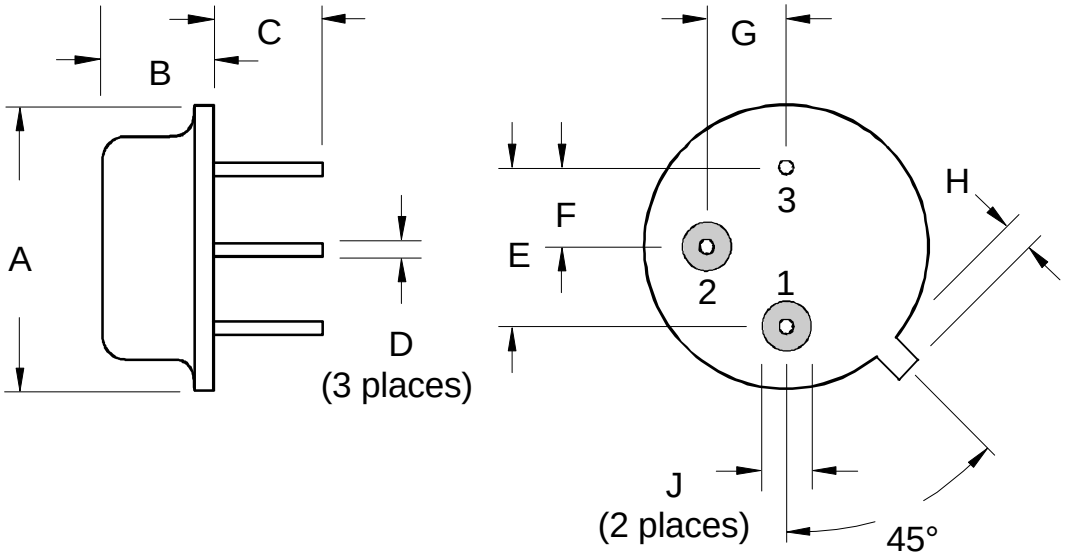
European Sales Office

TO39-3 Case

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



Dimensions	mm		Inches	
	Min	Max	Min	Max
A		9.30		0.366
B		3.18		0.125
C	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	
H		1.02		0.040
J	1.40		0.055	



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