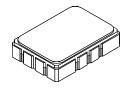
SF1103B 285 MHz SAW Filter



PRELIMINARY

- Designed for WCDMA 3G IF Applications
- Quartz Temperature Stability
- Small Size
- Hermetic 7 x 5 mm Surface-Mount Case



...T...

Characteristic		Sym	Min	Тур	Max	Units	Notes
Nominal Cente	r Frequency	fc		285.000 MHz		1	
Passband	Insertion Loss at fc	IL		14.5		dB	
	1 dB Passband	BW ₁	TBD	±2.0		MHz	1, 2
	3 dB Passband	BW ₃		±2.5			
	Amplitude Ripple over fc ±1.9 MHz			0.8	1.0	dB _{P-P}	
	Group Delay Variation over fc ±1.9 MHz	GDV		70	150	ns _{P-P}	
Rejection	fc-25 to fc-5.0 and fc+5.0 to fc+25 MHz		40	42		dB	1, 2, 3
Operating Temperature Range		T _A	-20		+80	°C	1

Matching to Unbalanced 50 Ω	External L-C			
Case Style	SMP-03 7 x 5 mm Nominal Footprint			
Lid Symbolization (YY = year, WW = week) See note 4	RFM SF1103B 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	235°C for	90 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:

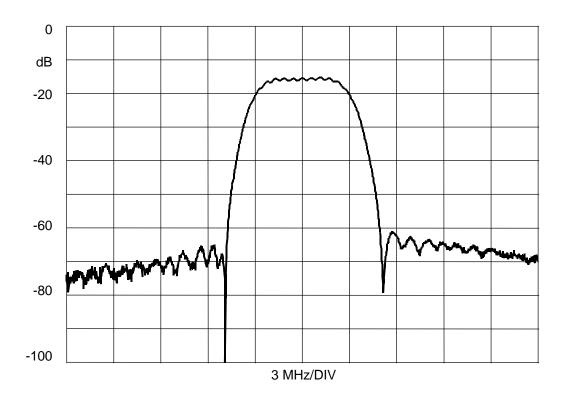
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- 2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.
- 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.
- 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.

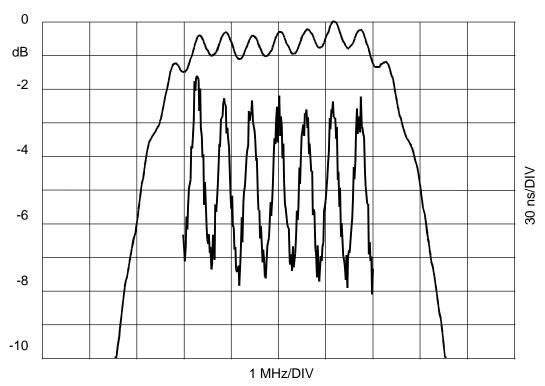


RF Monolithics, Inc. 4347 Sigma Road Dallas, Texas 75244 USA Phone: +1(972)233-2903 Fax: +1(972)387-8148 e-mail: <u>info@rfm.com</u> Home page: www.rfm.com

European Sales Office 44 1963 251383 44 1963 251510



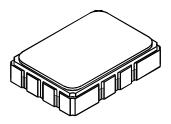




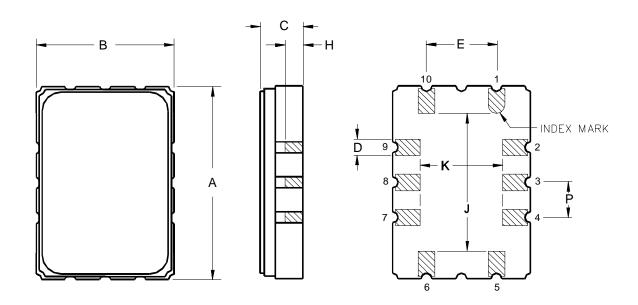
RF Monolithics, Inc. 4347 Sigma Road Dallas, Texas 75244 USA Phone: +1(972)233-2903 Fax: +1(972)387-8148 e-mail: <u>info@rfm.com</u> Home page: <u>www.rfm.com</u> **European Sales Office** 44 1963 251383 44 1963 251510



10-Terminal Ceramic Surface-Mount Case 7 x 5 mm Nominal Footprint



Dimension	mm			Inches			
Dillicitation	Min	Nom	Max	Min	Nom	Max	
Α	6.80	7.00	7.20	0.268	0.276	0.283	
В	4.80	5.00	5.20	0.189	0.197	0.205	
С		1.65	2.00		0.065	0.079	
D		0.60			0.024		
E		2.54			0.100		
J		5.00			0.197		
K		3.00			0.118		
Р		1.27			0.050		



RF Monolithics, Inc. Phone: (972) 233-2903 Fax: (972) 387-8148 RFM Europe Phone: 44 1963 251383 Fax: 44 1963 251510 ©1999 by RF Monolithics, Inc. The stylized RFM logo and RFM are registered trademarks of RF Monolithics, Inc.

