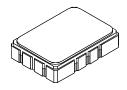
SF1103B 285 MHz SAW Filter



PRELIMINARY

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



$\int_{\mathbb{R}^n}$

Characteristic	Sym	Min	Тур	Max	Units	Notes	
Nominal Center 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.
- 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.
- US and international patents may apply.
- 3. 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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 E

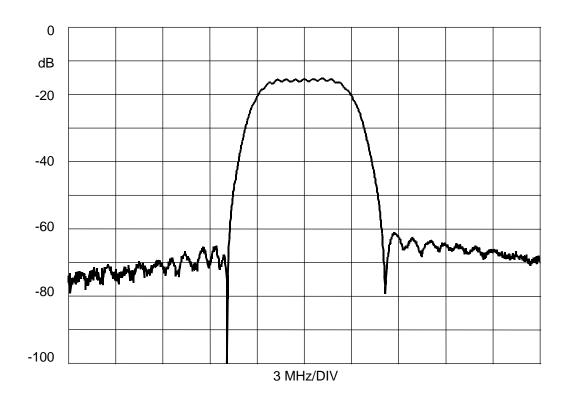
 4347 Sigma Road
 Fax: +1(972)387-8148
 4

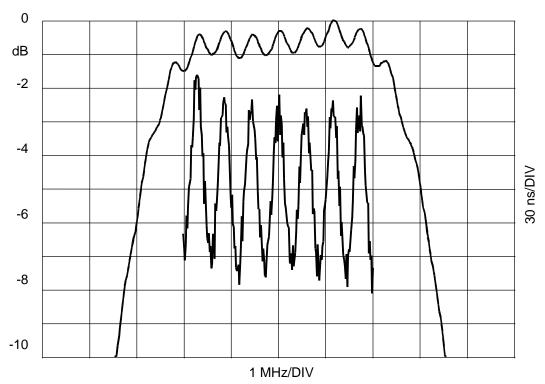
 Dallas, Texas 75244
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 Home page: www.rfm.com

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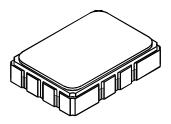




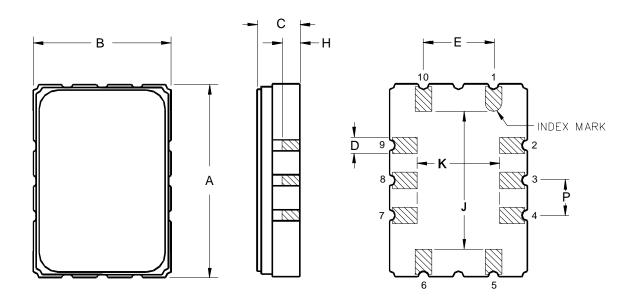




10-Terminal Ceramic Surface-Mount Case 7 x 5 mm Nominal Footprint

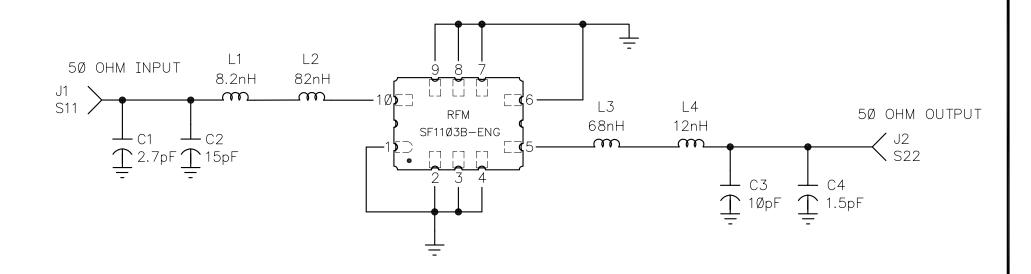


Dimension		mm		Inches			
Dimension	Min	Nom Max		Min	Nom	Max	
Α	6.80	7.00	7.20	0.268	0.276	0.283	
В	4.80	5.00	5.20	0.189	0.197	0.205	
С		1.65	2.00		0.065	0.079	
D		0.60			0.024		
E		2.54			0.100		
J		5.00			0.197		
K		3.00			0.118		
Р		1.27			0.050		



NOTES:

REVECN NO.DESCRIPTIONAPP/DATEA9755INITIAL RELEASE12 jul Ø1



<u>SCHEMATIC</u>

D.U.T. VIEWED FROM TOP
DOT INDICATES PIN 1 (INPUT)

drawn by/date: J.F.Christopherson 12julØ1			TITLE:	TITLE: ASSEMBLY DIAGRAM, SF11Ø3B-DEMO					
RF Monolithics, Inc. DALLAS, TEXAS 75244			SIZE A	code ident 2U874	DWG. NO.	SF11Ø3B-1ØØ	rev A	SHEET 1/3	

