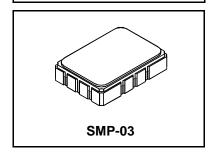


SF1141B-2

75.00 MHz **SAW Filter**



- Designed for SDARS IF Receiver
- **Low Insertion Loss**
- 5.0 X 7.0 mm Surface-Mount Case
- Differential Input and Output
- Complies with Directive 2002/95/EC (RoHS)



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 +105	°C	
Max Soldering Profile	265°C for 10 s		

Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	1	75.000			MHz
Passband	Insertion Loss at fc	IL	'		12.5	16.0	dB
	1dB Passband	BW ₁		±6.35	±7.43		MHz
Fast Amplitude Ripple over fc ±6.35 MHz			1, 2			1.5	dB _{P-P}
	Group Delay Variation over fc ±6.35 MHz	GDV			75	200	ns _{P-P}
Rejection	fc-18.8 to fc-10.95 and FC+18.8 to FC+100 MHz		1, 2, 3	40	45		dB
	fc+10.95 to fc+18.8 MHz		1, 2, 3	30	36]
Operating Temperature Range		T_A	1	-40		+105	°C
Differential Inp	ut and Output Impedance	250 ohms					
Case Style		6 SMP-03 7 x 5 mm Nominal Footprint				rint	
Lid Symbolization (YY=year, WW=week, S=shift) See note 4			RFM SF1141B-2 YYWW			3-2 YYWWS	

Electrical Connections

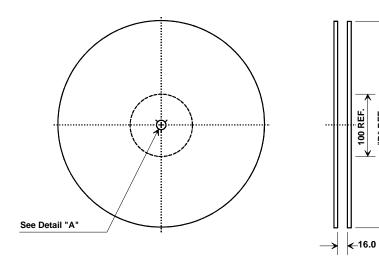
Connection	Terminals
Port 1 Hot	10
Port 1 Ground Return	1
Port 2 Hot	5
Port 2 Ground Return	6
Case Ground	All Others

Notes:

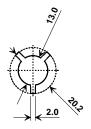
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- Unless noted otherwise, all frequency specifications are referenced to the nominal 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 3. matching design. See Application Note No. 42 for details.
- "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."
- The design, manufacturing process, and specifications of this filter are subject to change.
- Tape and Reel Standard ANSI / EIA 481.
- 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.
- RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.
- ©Copyright 1999, RF Monolithics Inc.
- Electrostatic Sensitive Device. Observe precautions for handling.



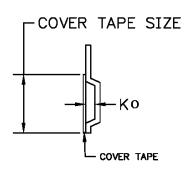
Tape and Reel Specifications



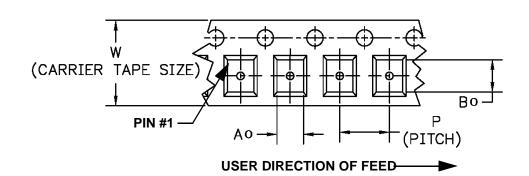
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



COMPONENT ORIENTATION and DIMENSIONS

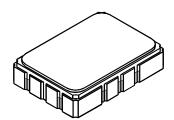


Carrier Tape Dimensions				
Ао	5.5 mm			
Во	7.5 mm			
Ко	2.0 mm			
Pitch	8.0 mm			
W	16.0 mm			



SF1141B-2-012606-Ver1.1

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

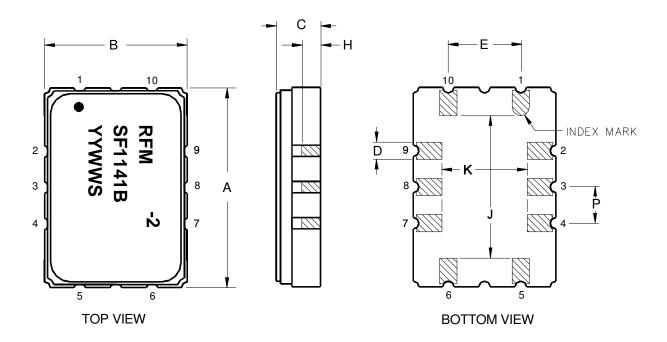


Case Dimensions

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	
Н		1.0			0.039	
J		5.00			0.197	
K		3.00			0.118	
Р		1.27			0.050	

Electrical Connections

	Connection	Terminals
Port 1 Input or Return		10
	Return or Input	1
Port 2	Output or Return	5
	Return or Output	6
	Ground	All others
Single Ended Operation		Return is ground
Differe	ntial Operation	Return is hot



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 are registered trademarks of RF Monolithics, Inc.