imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Low Insertion Loss

- 5.0 X 7.0 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)



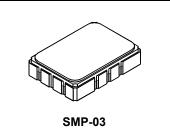
Absolute Maximum Ratings

Rating	Value	Units	
Maximum Incident Power in Passband	+10	dBm	
Max. DC voltage between any 2 terminals	30	VDC	
Storage Temperature Range	-40 to +85	°C	
Suitable for lead-free soldering - Max Soldering Profile	260°C	260°C for 30 s	

RFM products are now Murata products.

SF1145B

427.250 MHz **SAW Filter**



Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	1		427.250		MHz
Passband	Insertion Loss at fc	IL				3.5	dB
	1.5 dB Passband	BW ₁	1, 2	±15			kHz
Rejection (referenced to fc=427.250 MHz)	fc±1.5 MHz		1, 2, 3	5			
	fc±6.0 MHz		1, 2, 3	20			dB
	fc±50 MHz			50			
Operating Temperature Range		T _A	1	-40		+85	°C
Differential Input and Output Impedance after matching				50) ohms		•
Case Style			6	SMF	P-03 7 x 5 mm	Nominal Footp	print
Lid Symbolization (YY=year, WW=week, S=shift) See note 4			0		RFM SF1145	SB 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

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance 1. matching to 50 Ω and measured with 50 Ω network analyzer.

Inacching to 50 \$2 and measured with 50 \$2 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 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.
"Ether Rest 1 or Ret 2 movies up to use of the object." 2. 3.

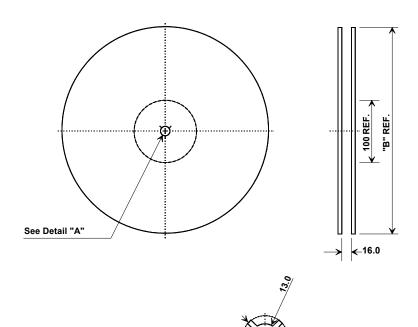
4.

5.

6. 7. 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. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

8. 9.

Tape and Reel Specifications

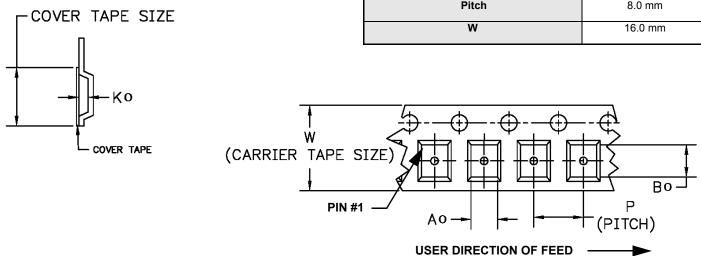


"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000

COMPONENT ORIENTATION and DIMENSIONS

2.0

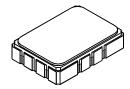
Carrier Tape Dimensions				
Αο	5.5 mm			
Во	7.5 mm			
Ко	2.0 mm			
Pitch	8.0 mm			
W	16.0 mm			



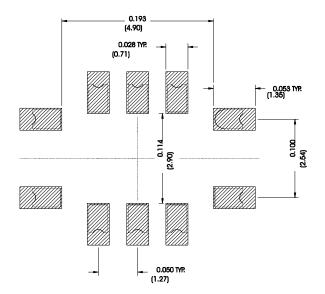
SMP-03 Case

10-Terminal Ceramic Surface-Mount Case

7 x 5 mm Nominal Footprint



Recommended PCB Footprint



Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Мах	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	
к		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		
Differential Operation		Return is hot		

	Materials
Solder Pad Termination	Au plating 30 - 60 ulnches (76.2-152 uM) over 80-200 ulnches (203-508 uM) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phos- phorus) 100-200 ulnches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	

