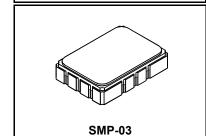




RFM products are now Murata products.

SF1200B

- 96.00 MHz **SAW Filter**



Absolute Maximum Ratings

Low Insertion Loss

5.0 X 7.0 mm Surface-Mount Case

Complies with Directive 2002/95/EC (RoHS)

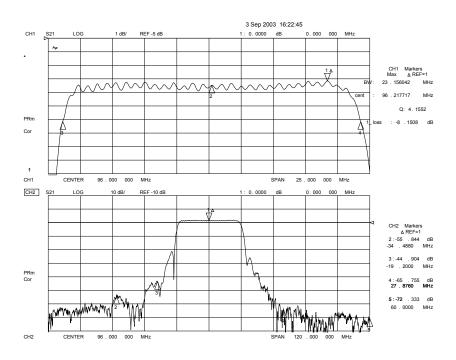
Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Max Soldering Profile	265°C for 10 s	

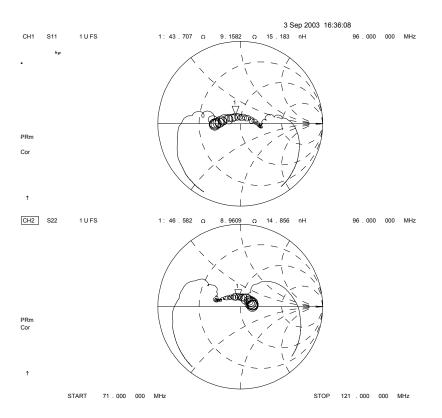
Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	1		96	•	MHz
Passband Bandwidth			'	20			MHz
Insertion Loss	86.0106.0MHz	IL	1, 2		8	12	
	068.4MHz			51	57		
Relative attenuation to I.L @	76.8MHz		1 2	40	45		
out of pass band (Rejection)	123.6162.8MHz		1, 3	56	65		dB
	162.81000MHz			35	40		
Amplitude Ripple (p-p)	86.0106.0MHz		1, 4		0.9	1.6	
Amplitude Ripple (p-p) @ 25°C	86.0106.0MHz		1, 4		1.2		
Group Delay Ripple (p-p)	86.0106.0MHz		1, 5		120	150	ns
1dB Commpression Point	86.0106.0MHz		1	12	15		dBm
Input IP3			1	35	40		dBm
Operating Temperature			1	-40		+85	°C
Terminating Impedance					50		Ohm
Case Style		SMP-03 7 x 5 mm Nominal Footprint					1
Lid Symbolization (YY=year, WW=week, S=shift) See note 4		RFM SF1200B YYWWS					

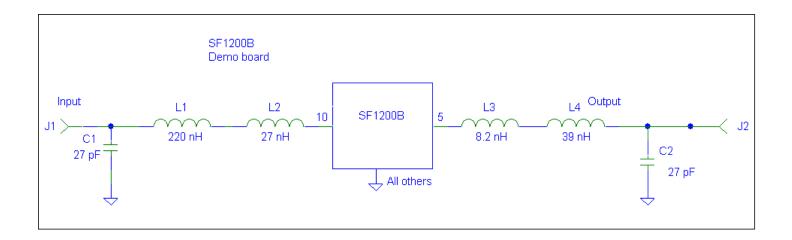
NOTES:

- 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 matching design. See Application Note No. 42 for details.
- The design, manufacturing process, and specifications of this filter are subject to change.
- US and international patents may apply.
- Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.
- Electrostatic Sensitive Device. Observe precautions for handling.

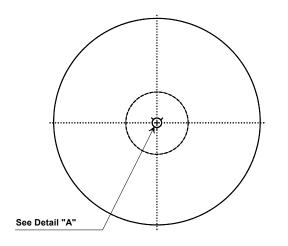


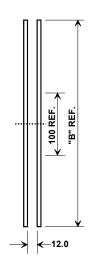




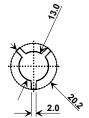


Tape and Reel Specifications

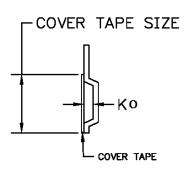




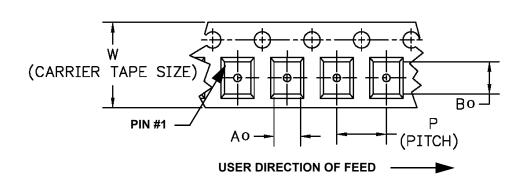
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



COMPONENT ORIENTATION and DIMENSIONS

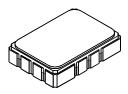


Carrier Tape Dimensions			
Ao	9.4 mm		
Во	7.4 mm		
Ко	2.0 mm		
Pitch	8.0 mm		
W	16.0 mm		

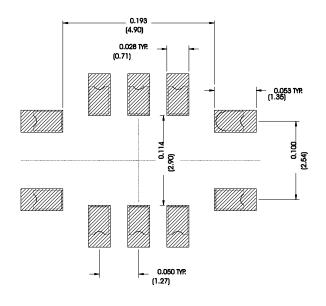


SMP-03 Case

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



Recommended PCB Footprint



Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	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	.47	0.60	.73	0.019	0.024	0.029
E	2.41	2.54	2.67	0.095	0.100	0.105
Н	0.87	1.0	1.13	0.034	0.039	0.044
J	4.87	5.00	5.13	0.192	0.197	0.202
K	2.87	3.00	3.13	0.113	0.118	0.123
Р	1.14	1.27	1.40	0.045	0.050	0.055

	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		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% Phosphorus) 100-200 ulnches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	•

