

Discontinued

RFM products are now Murata products.

SF1120B

298.74 MHz

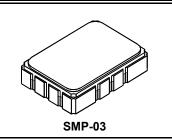
SAW Filter

Designed for GPS Applications

- Quartz Temperature Stability
- Small Size
- Hermetic 7 x 5 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	for 30 s



Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Мах	Units
Nominal Center Fre	equency	f _C	1		298.740		MHz
Passband	Insertion Loss at fc	IL				12.0	dB
	1 db Passband	BW ₁		±750			kHz
	3 db Passband	BW3	1.2	±1100	±1150	±1300	
Amplitude Ripple over fc±1.0 MHz			1, 2			1.0	dB _{P-P}
	Group Delay Variation over fc ±1.0 MHz	GDV				250	ns _{P-P}
Rejection	fc-25 to fc-5.0 and fc+5.0 to fc+25 MHz		1, 2, 3				dB
Operating Temperature Range		Τ _Α	1	-20		+75	°C

Matching to Unbalanced Impedance	External L-C to $1k\Omega$ (Port 1) and 200 Ω (Port 2)		
Case Style	6 SMP-03 7 x 5 mm Nominal Footprint		
Lid Symbolization (YY = year, WW = week)		RFM SF1120B YYWW	

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

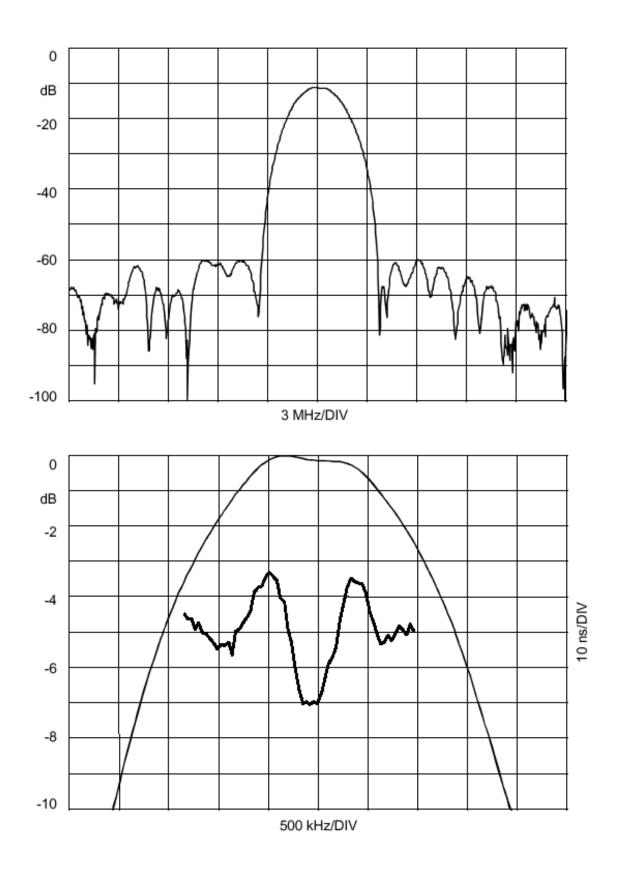
NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range 1. 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 2. frequency, fc.
- 3 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." 4.
- The design, manufacturing process, and specifications of this filter are subject to change. Tape and Reel Standard ANSI / EIA 481. 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. 8.

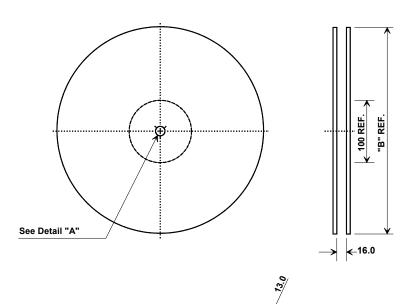
Electrical Connections

Connection	Terminals
Port 1	1, 10
Port 2	5, 6
Case Ground	All others

www.murata.com



Tape and Reel Specifications



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

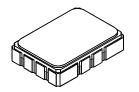
COMPONENT ORIENTATION and DIMENSIONS

2.0

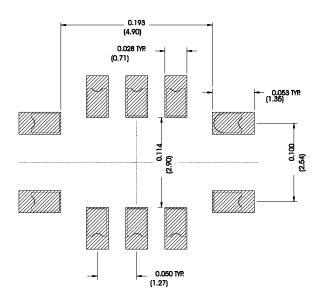
	Carrier Tape Dimer	nsions
	Ао	5.5 mm
	Во	7.5 mm
COVER TAPE SIZE	Ко	2.0 mm
	Pitch	8.0 mm
	W	16.0 mm
COVER TAPE (CARRIER TAPE		P (PITCH)

SMP-03 Case

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



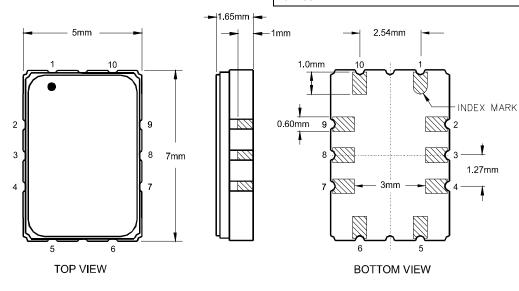
Recommended PCB Footprint



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		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	·



www.murata.com

单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)