

SF1120B

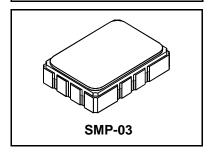
- Designed for GPS Applications
- Quartz Temperature Stability
- Small Size
- Hermetic 7 x 5 mm Surface-mount Case
- Complies with Directive 2002/95/EC (RoHS)



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		°C
Suitable for lead-free soldering - Max. Soldering Profile	260°C for 30 s	

298.74 MHz SAW Filter



Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Freq	uency	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	BW ₃	1. 2	±1100	±1150	±1300	KIIZ
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		T _A	1	-20		+75	°C

Matching to Unbalanced Impedance	External L-C to 1k Ω (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	

Notes:

- 1. 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.
- "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. Tape and Reel Standard ANSI / EIA 481.
- 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.
- 8. US and international patents may apply.
- 9. Electrostatic Sensitive Device. Observe precautions for handling.

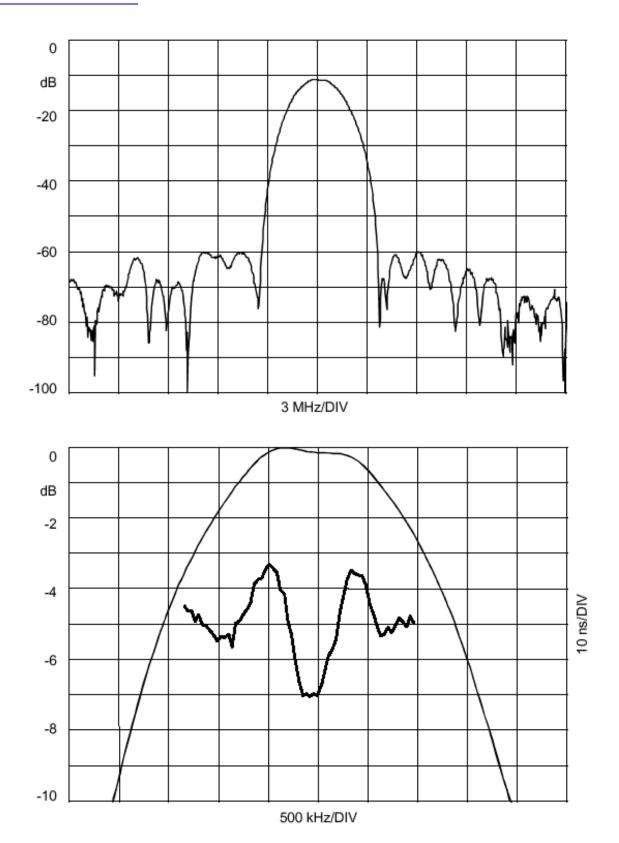


Electrical Connections

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

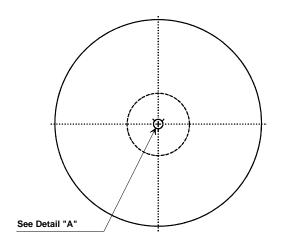
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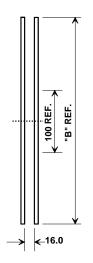
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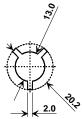
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Tape and Reel Specifications

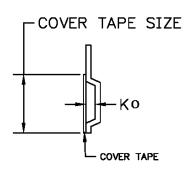




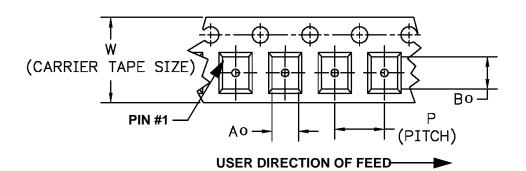
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



COMPONENT ORIENTATION and DIMENSIONS



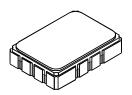
Carrier Tape Dimensions			
Ao	5.5 mm		
Во	7.5 mm		
Ко	2.0 mm		
Pitch	8.0 mm		
w	16.0 mm		



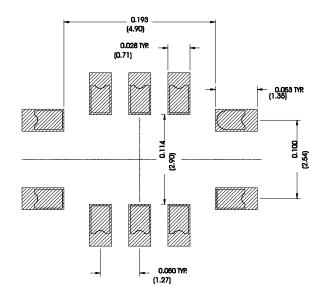
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10-Terminal Ceramic Surface-Mount Case 7 x 5 mm Nominal Footprint



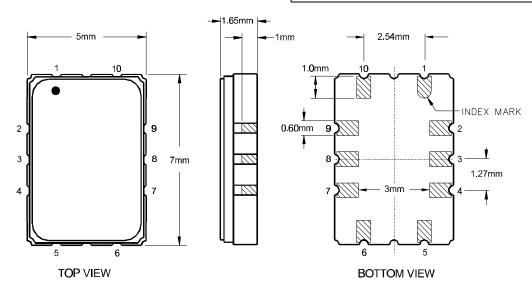
Recommended PCB Footprint



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	
K		3.00			0.118	
P		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	
Differer	ntial 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% Phosphorus) 100-200 ulnches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	



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