

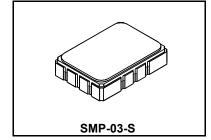


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SF2039B-3

72.540 MHz

SAW Filter



· Designed for SDARS IF Receiver

- · Low Insertion Loss
- 5.0 X 7.0 mm Surface-Mount Case
- · Differential or Single Ended 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 +85	°C			
Max Soldering Profile	265°C for 10 s				

Electrical Characteristics

Characteristic		Notes	Min	Тур	Max	Units
Nominal Center Frequency		1	72.540			MHz
Passband Insertion Loss	IL	'		10.5	12.5	dB
1dB Passband	BW ₁		3.7	4.0		MHz
15dB Bandwidth	BW ₁₅			6.5	6.7	MHz
30dB Bandwidth Amplitude Ripple over fc ±1.85 MHz Group Delay Variation over fc ±1.85 MHz		1 1		7.5	7.7	MHz
				0.5	1.3	dB _{P-P}
				60	150	ns _{P-P}
Rejection 50 to 66.48 MHz			40	47		dB
66.48 to 68.08 MHz			33.5	43		
77.30 to 78.60 MHz		1, 3	38	42		
78.60 to 86.50 MHz		1, 3	40	44		- ub
86.50 to 91.50 MHz			45	50		1
91.50 to 100.00 MHz			45	55		1
Operating Temperature Range		1	-40		+85	°C
Frequency Temperature Coefficient				-18		ppm/°C
Differential Input			17	5 ohms		
Differential Output 1000 ohms						
Case Style		6 SMP-03-S 5 x 7 mm Nominal Footpr			tprint	
Lid Symbolization (YY=year, WW=week, S=shift) See note 4		0	RFM SF2039B-3 YYWWS			

Electrical Connections

Connection	Port 1 Hot	Port 1 Ground Return or Hot	Port 2 Hot	Port 2 Ground Return or Hot	Case Ground
Terminals	10	1	5	6	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 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 3. 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.

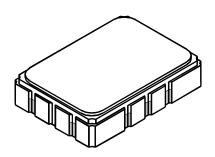
 Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
- US and international patents may apply.

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SMP-03-S Case

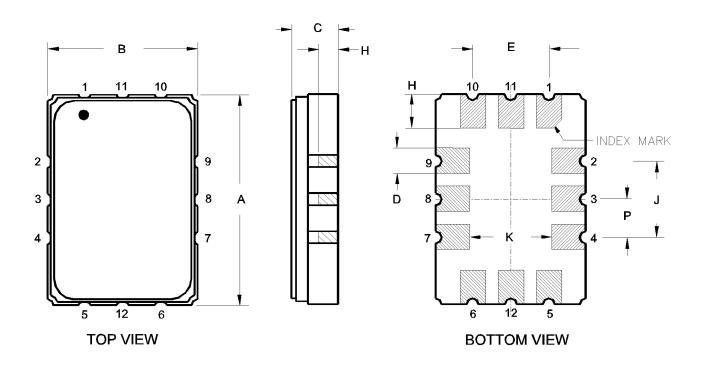


12-Terminal Ceramic Surface-Mount Case 5 x 7 mm Nominal Footprint

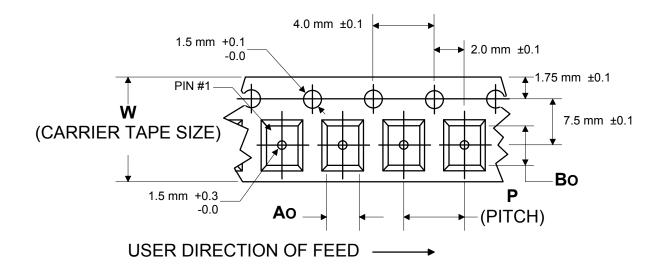


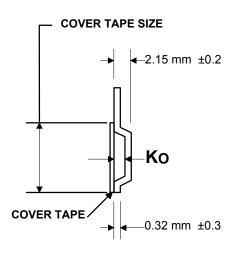
Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
Α	6.80	7.00	7.20	0.268	0.276	0.283
В	4.80	5.00	5.20	0.189	0.197	0.205
С		1.65	2.00		0.065	0.079
D		0.80				
E	2.41	2.54	2.67	0.095	0.100	0.105
Н	0.87	1.1	1.13	0.034	0.039	0.044
J		2.54				
K	2.87	3.00	3.13	0.113	0.118	0.123
Р	1.14	1.27	1.40	0.045	0.050	0.055

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



COMPONENT ORIENTATION and DIMENSIONS





Carrier Tape Dimensions					
Ao	5.5 mm	±0.1			
Во	7.5 mm	±0.1			
Ко	2.0 mm	±0.1			
Pitch	8.0 mm	±0.1			
W	16.0 mm	±0.3			

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