Preliminary



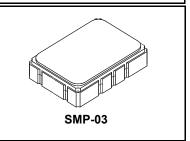
SF2332B

- SAW Filter, 183.6 MHz
- 7.0 x 5.0 x 2.0 mm Surface-mount Case
- Input/Output Impedance $200\Omega/200\Omega$
- Complies with Directive 2002/95/EC (RoHS)
- AEC-Q200

Absolute Maximum Ratings

Rating	Value	Units
Incident Power in Passband	+10	dBm
DC Voltage on any Non-ground Terminal	3	VDC
Operating Temperature Range	-30 to +85	°C
Component Storage Temperature Range	-40 to +85	°C
Maximum Soldering Profile, 5 cycles/10 seconds maximum	+260	°C

183.6 MHz **SAW Filter**



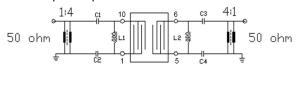
Electrical Characteristics

Characteristic	Sym	Note	Min	Тур	Max	Units	
Center Frequency	f _C		183.6				
5dB Bandwidth			1.26	1.46		MHz	
33dB Bandwidth				1.73	1.8		
Minimum Insertion Loss at Fc	IL			9.5	10.5	dB	
Passband Ripple (Fc-0.3MHzFc+0.3MHz)				0.6	1.2	1.2 dB	
Phase Linearity (Fc-0.63MHzFc+0.63MHz)	rms			1.7	2.5	deg	
Attenuation							
Fc±0.9 MHz			28	31			
Fc±1.25 MHz			33	36			
Fc±1.7 MHz			30	33			
Fc±2.05 MHz			33	37			
10 to 168 MHz			50	58		dB	
168.6 to 174.6 MHz			40	48			
174.6 to 182.7 MHz			28	31			
184.5 to 192.6 MHz			30	33			
192.6 to 198.6 MHz			40	48			
198.6 to 283.6 MHz			50	75			

$200~\Omega$ balance in and out	
Case Style	SMP03 - 7 X 5 mm
Lid Symbolization (Y = Year WW = Week S= Shift)	RFM/SF2332B/YWWS##

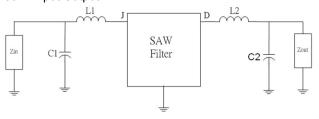
Measurement Circuit - SF2332B

200 Ω Input/Output



C1=C2=7PF C3=C4=4PF L1=33NH L2=56NH

50 Ω Input/Output



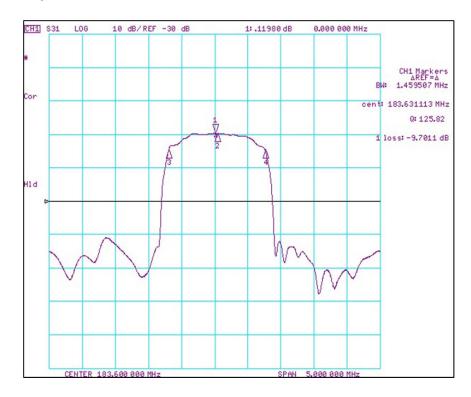
L1=100nH, C1=27pF, L2=56nH, C2=36pF

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

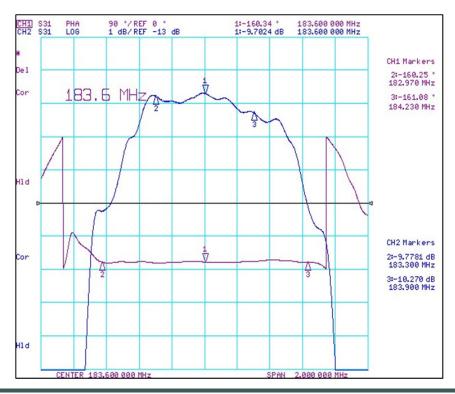
US and international patents may apply.
Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Filter Response Plots

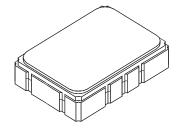
Wide Band Response



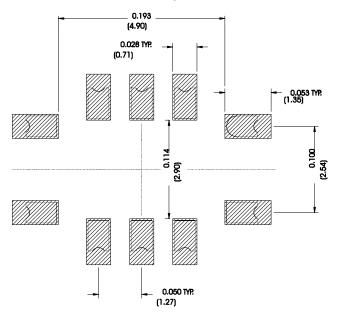
Pass Band Response



SMP-03 10-Terminal Ceramic Surface-mount Case 5.0 X 7.0 mm Nominal Footprint



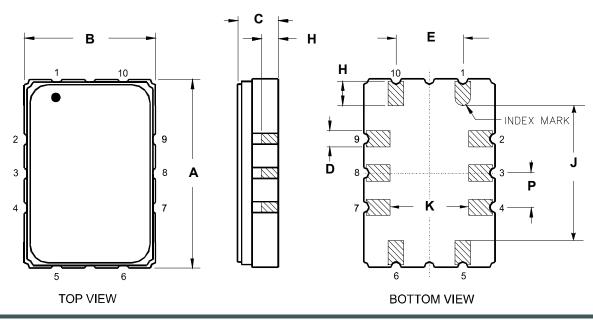
Recommended PCB Footprint



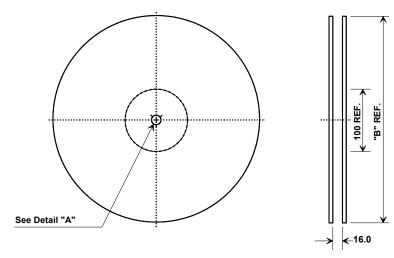
Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
Α	6.80	7.00	7.20	0.268	0.276	0.283
В	4.80	5.00	5.20	0.189	0.197	0.205
С	-	1.65	2.00	-	0.065	0.079
D	0.47	0.60	0.73	0.019	0.024	0.029
E	2.41	2.54	2.67	0.095	0.100	0.105
Н	0.87	1.0	1.13	0.034	0.039	0.044
J	4.87	5.00	5.13	0.192	0.197	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	Differential Input	10, 1	
Port 2	Differential Output	5, 6	
Ground		All others	

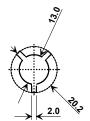
Case Materials			
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel		
Lid Plating 2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic		
	Pb Free		



Tape and Reel Specifications



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



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions			
Ao	5.6 mm		
Во	7.6 mm		
Ko	2.0 mm		
Pitch	8.0 mm		
W	16.0 mm		

