PRELIMINARY



RFM products are now Murata products.

SF2377B

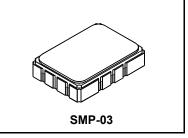
- · Designed for SDARS IF Receiver
- Low Insertion Loss
- 5.0 X 7.0 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

7 100 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Rating	Value	Units
Incident Power Level	10	dBm
DC Voltage	10	VDC
Storage Temperature Range	-40 to +85	°C
Operating Temperature Range	-40 to +85	°C



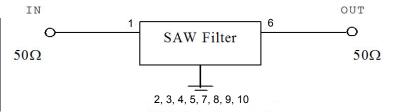


Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units	
Nominal Center Frequency		f _C	1		137.5		MHz	
Insertion Loss (@137.5 MHz)			'		1.5	3.5	dB	
Passband Ripple (137 to 138 MHz)					0.4	1.5	dB	
2dB Bandwidth	BW ₂			1.4	2.5		MHz	
3dB Bandwidth	BW ₃			1.8	2.6			
20dB Bandwidth	BW ₂₀				4.5	6.0		
Attenuation (reference level from 0 dB)								
129 MHz				42	70			
134 MHz				30	34		dB	
141 MHz				20	23		1	
146 MHz				30	40		1	
Temperature Coefficient of Frequency					-36		ppm/°C	

Electrical Connections

Connection	Terminals		
1	Input		
6	Output		
10	Input Ground		
5	Output Ground		
Case Ground	All Others		

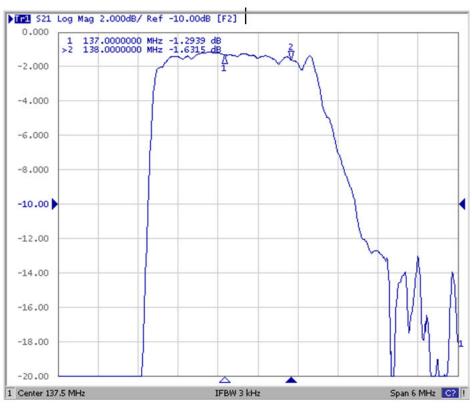


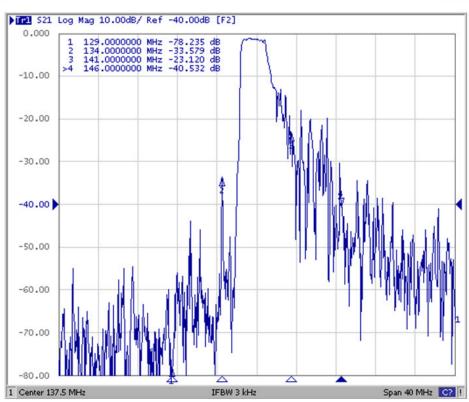
CAUTION: ELECTROSTATIC SENSITIVE DEVICE. OBSERVE PRECAUTIONS FOR HANDLING.

- 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. 1.
- 2. 3. 4.
- The design, manufacturing process, and specifications of this filter are subject to change.

 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.

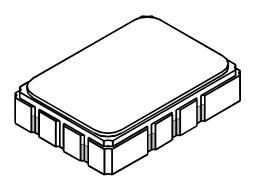
Frequency Characteristics



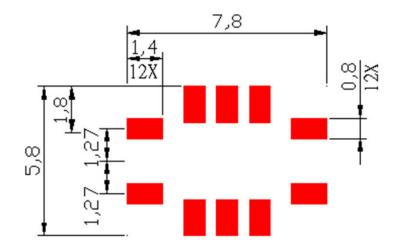


SMP-03 Case

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	-	5.00	-	-	0.198	-
В	-	7.00	-	-	0.275	-
С	ı	-	1.8	-	-	0.070
D	ı	5.0	-	-	0.198	-
E	ı	0.6	-	-	0.023	-
F	-	2.54	-	-	0.100	-
G	ı	1.0	-	-	0.039	-
Н	-	0.3	-	-	0.011	-
l		1.27	-	-	0.050	-
J	-	2.54	-	-	0.100	-

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				

Outline Drawing

