



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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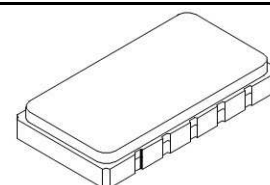
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



RFM products are now  
Murata products.

**SF2021B**

**73.5996 MHz  
SAW Filter**



**SMP-53-S Case**

• Hermetic 13.3 x 6.5 mm Surface3-Mount Case

### Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+20	dBm
Max DC Voltage between any 2 terminals	30	VDC
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range	-40 to +85	°C
Solder Reflow Temperature, 10 seconds	265	°C

### Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	fC	1		73.5996		MHz
Maximum Insertion Loss at fc	IL			9	10	dB
1 dB Passband	BW <sub>1</sub>			3.73		MHz
Amplitude Ripple over fc ±1.865 MHz		1, 2			1	dB <sub>P-P</sub>
Amplitude Tilt over fc ±1.865 MHz					0.5	dB
Phase Variation over fc ±1.875 MHz					11	° <sub>P-P</sub>
Rejection						dBc
Fc-5.8 MHz offset to 0 MHz		1, 2, 3	45			
Fc+5.8 MHz offset to 150 MHz			45			
Input return loss: Match to 50 Ω single end Impedance	>10dB, with External L-C					
Output return loss: Match to 50 Ω single end Impedance	>10dB, with External L-C					
Case Style	SMP-53-S Case					
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	RFM SF2021B YYWWS					



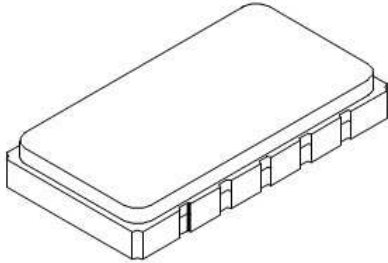
**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

#### NOTES:

1. Unless noted otherwise, all *specifications apply over temperature range.*
2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, f<sub>c</sub>.
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.
4. "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. 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.
7. US and international patents may apply.
8. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

# SMP-53-S Case

## 10-Terminal Ceramic Surface-Mount Case 13.3 X 6.5 mm Nominal Footprint

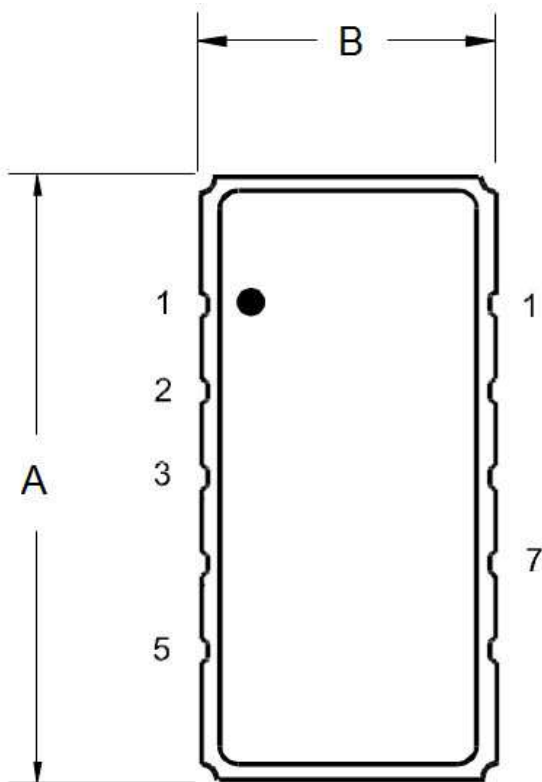


### Case and PCB Footprint Dimensions

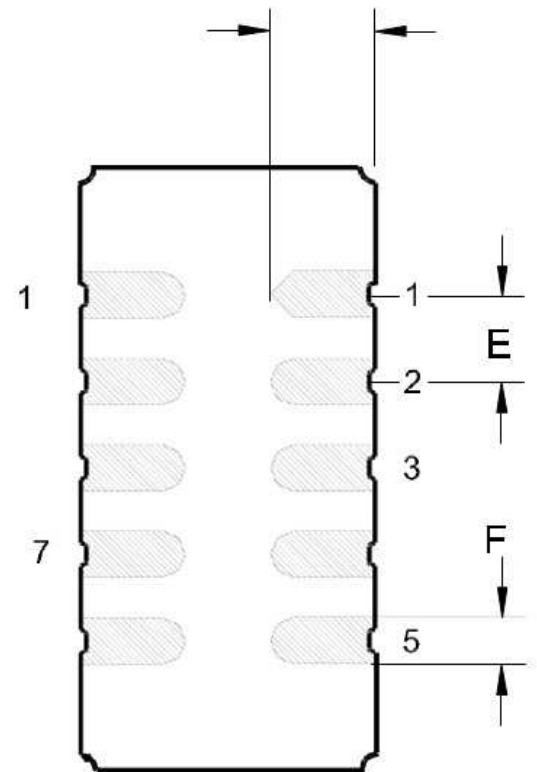
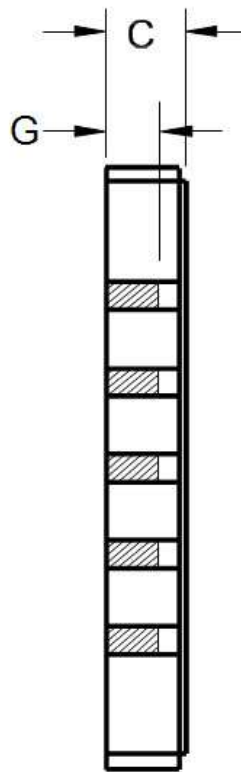
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A		13.3			.524	
B		6.5			.256	
C			2.0			.078
D		2.3			.091	
E		1.91			.075	
F		1.02			.040	
G		1.0			0.039	

### Electrical Connections

Connection	Terminals
Input	1
Output	6
Case Ground	All others



TOP VIEW



BOTTOM VIEW