# imall

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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- RF SAW Filter, 2326.0 MHz
- 2.5 x 2.0 x 1.0 mm Surface-mount Case
- $Z_S = 50$  ohm,  $Z_L = 100$  ohm
- Complies with Directive 2002/95/EC (RoHS)



#### **Absolute Maximum Ratings**

Rating	Value	Units
Maximum Input Power	+15	dBm
Maximum DC Voltage Between any Two Terminals	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile	265°C for 10 s	



SF1220G

2326.0 MHz

#### **Electrical Characteristics**

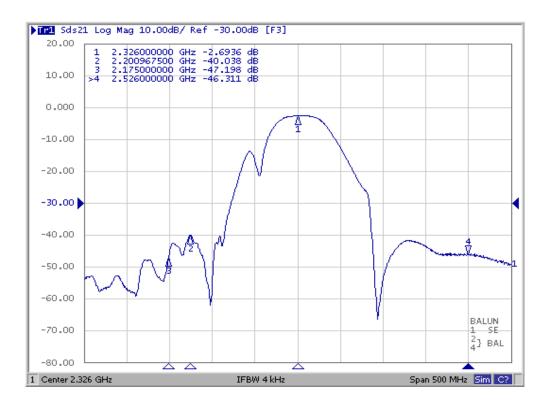
Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f <sub>C</sub>			2326	•	MHz
Maximum Insertion Loss, 2319 to 2333 MHz	IL <sub>MAX</sub>			2.7	3.2	dB
Amplitude Ripple, 2319 to 2333 MHz				0.4	1.0	dB <sub>P-P</sub>
Group Delay Ripple, 2319 to 2333 MHz				7.3		ns <sub>P-P</sub>
Group Delay, 2326 MHz				11		ns
VSWR, 2319 to 2333 MHz				1.85:1	2.1:1	
Return Loss, 2319 to 2333 MHz			6.5	9.6		dB
Source Impedance, Single Ended				50		Ω
Load Impedance, Balanced				100		Ω
Attenuation						
0.3 to 2175 MHz			39	47		
2175 to 2227 MHz			25	40		
2400 to 2426 MHz			15	24		dB
2426 to 2526 MHz			35	41		
2526 to 2700 MHz			40	46		
Case Style		SM2520-4				
Lid Symbolization		3V				



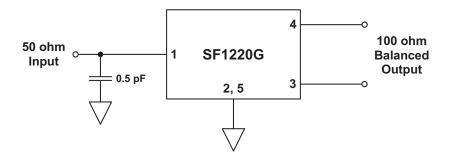
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 1. 2.
- US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

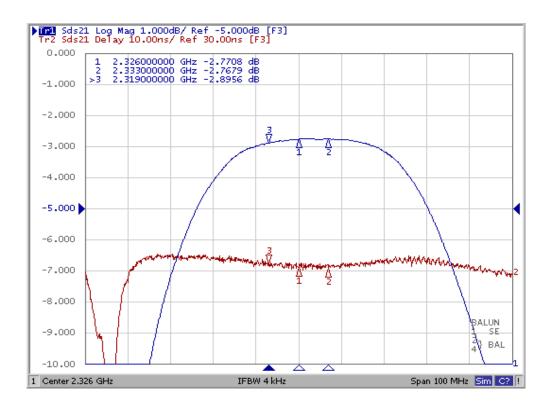
### Filter Amplitude Response, 500 MHz Span:



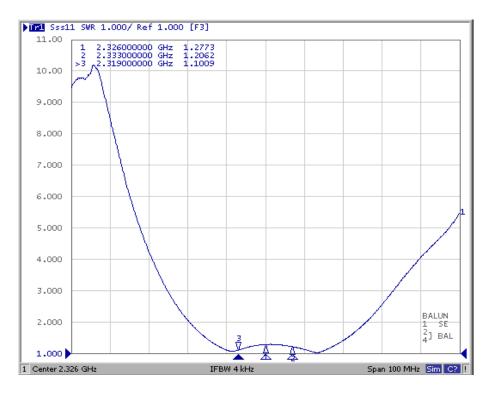
**Test Circuit** 



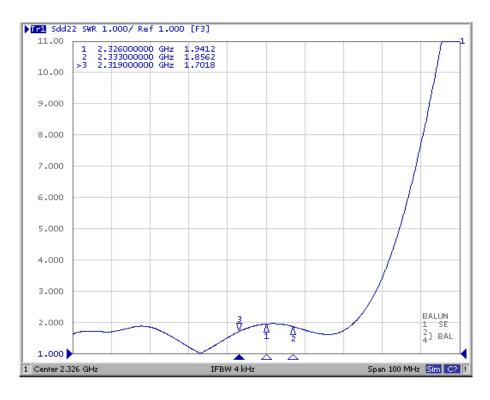
### Filter Amplitude and Group Delay Response, 100 MHz Span:



### **Input VSWR Plot:**

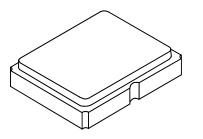


### **Output VSWR Plot:**

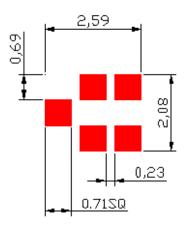


### SM2520-5 Case

### 5-Terminal Ceramic Surface-mount Case 2.5 X 2.0 mm Nominal Footprint



#### **PCB** Footprint



#### **Case Dimensions**

Dimension	mm Nom		Inches			
Binension			Nom			
Α	1.88	2.00	2.12	0.074	0.079	0.083
В	2.38	2.50	2.62	0.094	0.098	0.103
С	0.92	1.00	1.08	0.036	0.039	0.043
D	0.42	0.55	0.68	0.017	0.022	0.027
E	0.42	0.55	0.68	0.017	0.022	0.027
F	1.27	1.40	1.53	0.050	0.055	0.060
G	0.37	0.50	0.63	0.015	0.020	0.025
н	0.06	0.08	0.10	0.002	0.003	0.004
I	0.77	0.90	1.03	0.030	0.035	0.041

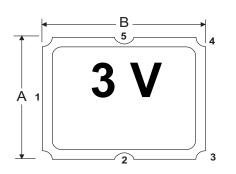
#### **Case Material**

Materials			
Solder Pad Plating	0.3 to 1.0 $\mu m$ Gold over 1.27 to 8.89 $\mu m$ Nickel		
Lid Plating	2.0 to 3.0 µm Nickel		
Body	Al <sub>2</sub> O <sub>3</sub> Ceramic		
Pb Free			

#### **Electrical Connections**

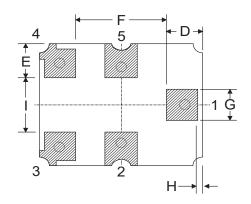
Connection	Terminals
Input	1
Output	3, 4
Ground	2, 5

С

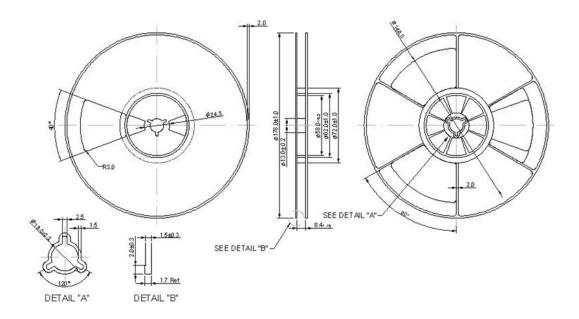


**TOP VIEW** 





### **Reel Dimension**



**Tape Dimension** 

