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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



INNOVATOR IN ELECTRONICS

RFM products are now Murata products.

• Surface Mount 3.0 x 3.0 mm Package

Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile, 5 cycles/10 seconds maximum	265	°C

SF2198E

806 MHz

SAW Filter

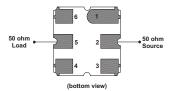
SM3030-6

Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units	
Center Frequency		f _C			806		MHz	
Insertion Loss	791 to 821 MHz	IL			2.9	4.5		
	800 to 812 MHz				2.3	3.0	dB	
	805 to 806 MHz				1.8	2.5	uв	
Amplitude Ripple, 791 to 821 MHz					1.3	3.0		
VSWR, 791 to 821 MHz					1.7	2.5		
Attenuation, 0 dB Reference:								
DC to 760 MHz				45	55			
760 to 775 MHz				30	48			
832 to 862 MHz				8	15		dB	
862 to 900 MHz				30	39			
900 to 1500 MHz				45	57			
1500 to 2000 MHz				35	45			
Source Impedance		Z _S			50		0	
Load Impedance		ZL			50		Ω	
Case Style		SM3030-6 3.0 x 3.0 mm Nominal Footprint						
Lid Symbolization (Y=year, WW=we	eek, S=shift) dot=pin 1 indicator	928, YWWS						
Standard Reel Quantity Ree	el Size 7 Inch	500 Pieces/Reel						
Reel Size 13 Inch			3000 Pieces/Reel					

Electrical Connections

Connection	Terminals
Input	2
Output	5
Case Ground	All others

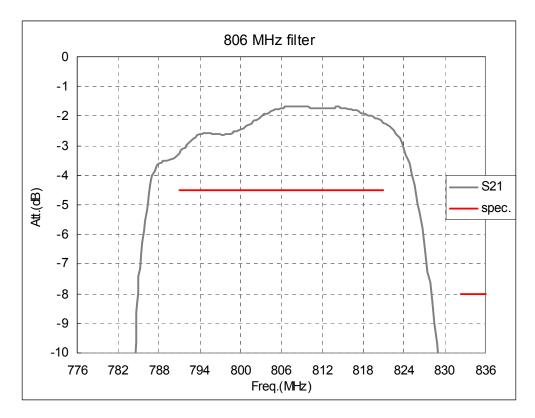


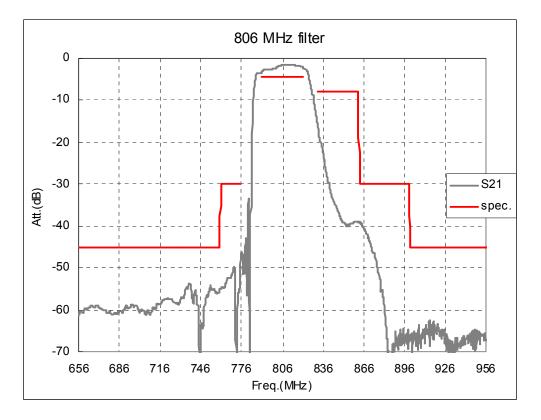
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

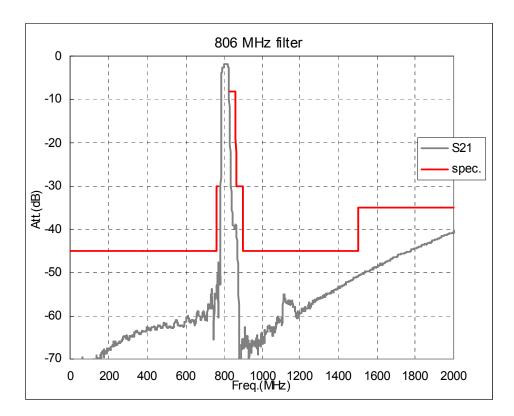
NOTES:

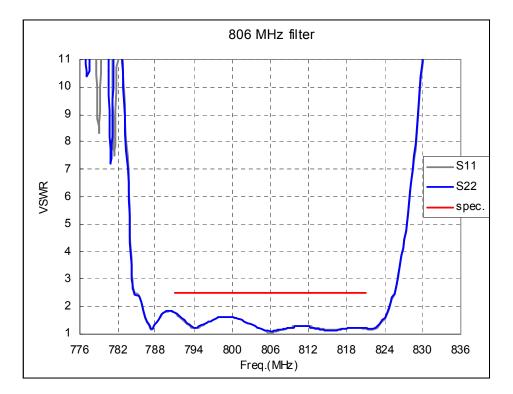
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance 1. matching to 50 Ω and measured with 50 Ω network analyzer.
- 2. 3.
- Unless noted otherwise, all frequency specifications are referenced to 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 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." 4.
- 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. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd. 8

Filter Response Plots



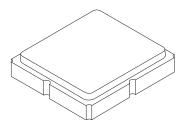


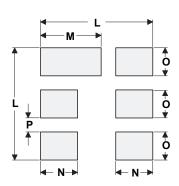




SM3030-6 Case

6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint





PCB Footprint Top View

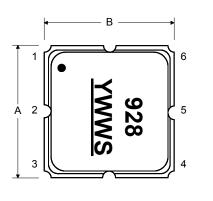
Dimension	mm			Inches			
Dimension	Min	Nom	Max	Min	Nom	Max	
Α	2.87	3.00	3.13	0.113	0.118	0.123	
В	2.87	3.00	3.13	0.113	0.118	0.123	
С	1.12	1.25	1.38	0.044	0.049	0.054	
D	0.77	0.90	1.03	0.030	0.035	0.040	
E	2.67	2.80	2.93	0.105	0.110	0.115	
F	1.47	1.60	1.73	0.058	0.063	0.068	
G	0.72	0.85	0.98	0.028	0.033	0.038	
н	1.37	1.50	1.63	0.054	0.059	0.064	
I	0.47	0.60	0.73	0.019	0.024	0.029	
J	1.17	1.30	1.43	0.046	0.051	0.056	
к	0.62	0.75	0.88	0.024	0.029	0.034	
L		3.20			0.126		
м		1.70			0.067		
N		1.05			0.041		
0		0.81			0.032		
Р		0.38			0.015		

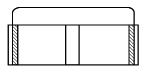
Case and PCB Footprint Dimensions

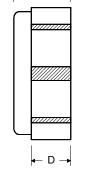
Case Materials

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				

TOP VIEW

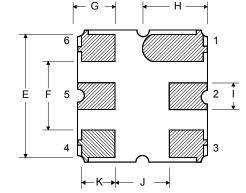




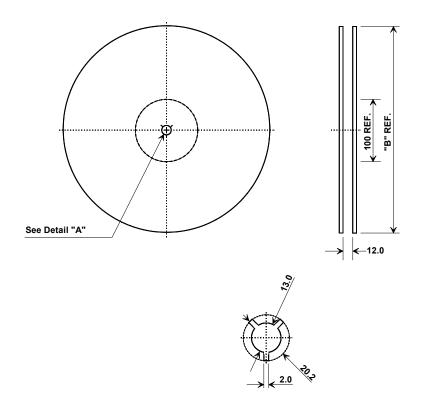


С

BOTTOM VIEW



Tape and Reel Specifications



I	"B"	Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000

COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions					
Ao	3.35 mm				
Во	3.35 mm				
Ко	1.40 mm				
Pitch	8.0 mm				
W	12.0 mm				

