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





- 915 MHz Low-loss SAW Filter
- Surface Mount 3.0 x 3.0 mm Package
- Complies with Directive 2002/95/EC (RoHS)

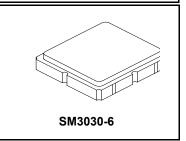


Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +60	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Solder Reflow Temperature, 10 seconds, 5 cycles maximum	260	°C

SF2150E

915 MHz **SAW Filter**



Electrical Characteristics

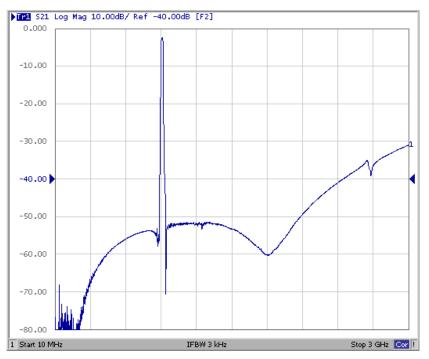
Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			915		MHz
Insertion Loss, 910 to 920 MHz	IL			3.0	3.7	dB
Amplitude Ripple, 910 to 920 MHz				0.8	1.7	dB _{P-P}
Attenuation, Referenced to 0 dB						
DC to 880 MHz			45	50		
880 to 890 MHz			40	52		
940 to 950 MHz			35	40		
950 to 1200 MHz			43	48		40
1200 to 1600 MHz			40	48		dB
1600 to 2200 MHz			30	43		
2200 to 2500 MHz			25	35		
2500 to 3000 MHz			20	27		
Source Impedance	Z _S			50		0
Load Impedance	Z _L 50			Ω		
Case Style	SM3030-6 3.0 x 3.0 mm Nominal Footprint					
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	A44, YWWS					
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel					
Reel Size 13 Inch	3000 Pieces/Reel					

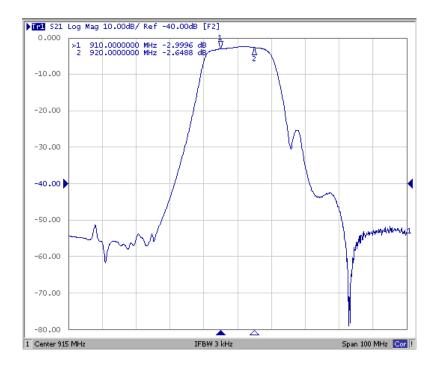


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

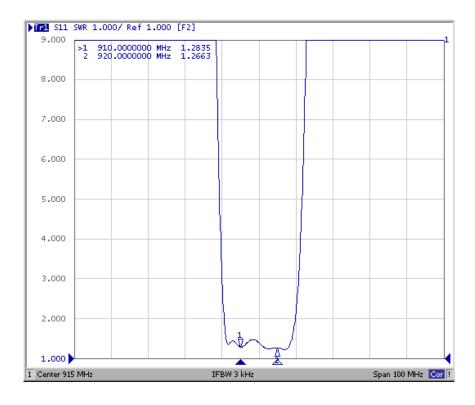
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer. 1.
- Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc. 2. 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
- 4 5.
- "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes." 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 0 and the filter function of the second seco 6. 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

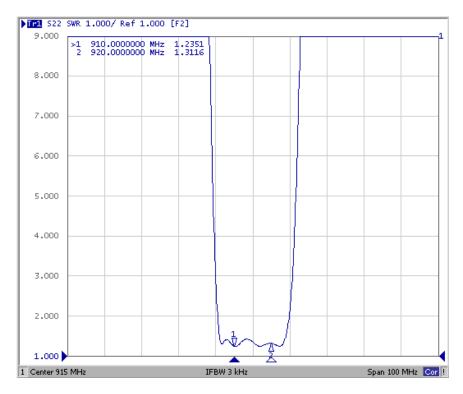
Filter Response Plots





VSWR Plots

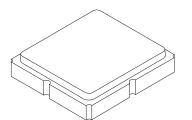


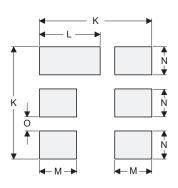


SM3030-6 Case

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

Case and PCB Footprint Dimensions



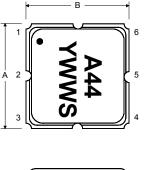


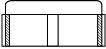
PCB Land Pattern Top View

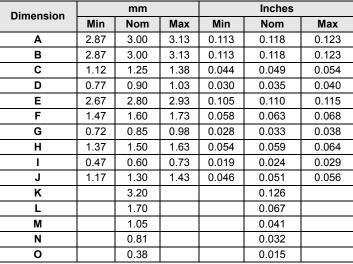
Electrical Connections

Connection	Terminals
Input	2
Output	5
Ground	All Others







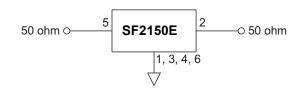


Case Materials

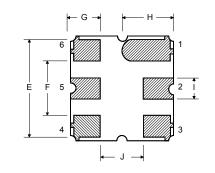
С

+ D

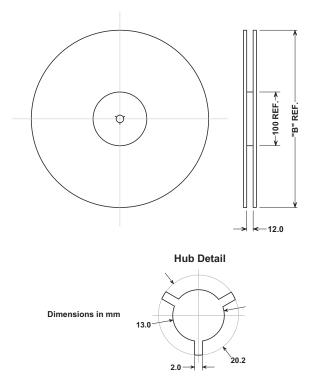
Materials			
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel		
Lid Plating	2.0 to 3.0 µm Nickel		
Body	Al ₂ O ₃ Ceramic		
Pb Free			



BOTTOM VIEW



Tape and Reel Specifications



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

COMPONENT ORIENTATION and DIMENSIONS

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

