

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!



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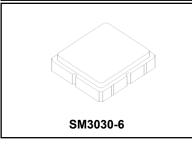




RFM products are now Murata products.

SF2053E

915.00 MHz **SAW Filter**



Low Loss Filter for 915 MHz Front End

• Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	20	dBm
DC Voltage on any Non-ground Terminal	0	V
Operating Temperature Range	-20 to +60	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile, 5 Cycles/10 seconds Maximum	265	°C

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units	
Center Frequency	f _C			915		MHz	
Insertion Loss, 908.75 to 921.25 MHz	IL _{MIN}			3.0	5.0	dB	
Amplitude Variation, 910.25 to 921.25 MHz				1.0	1.5		
Amplitude Variation, 908.75 to 921.25 MHz				1.0	3.1	dB _{P-P}	
Attenuation, Referenced to IL _{MIN}							
850 to 902 MHz			18	31			
928 to 940 MHz			7.5	15		dB	
800 to 850 MHz			35	48			
940 to 1000 MHz			33	41		1	
Temperature Coefficient of Frequency	TC _f			-42		ppm/K	
Source Impedance	Z _S			50		Ω	
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	531, YWWS	
Standard Reel Quantity Reel 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.

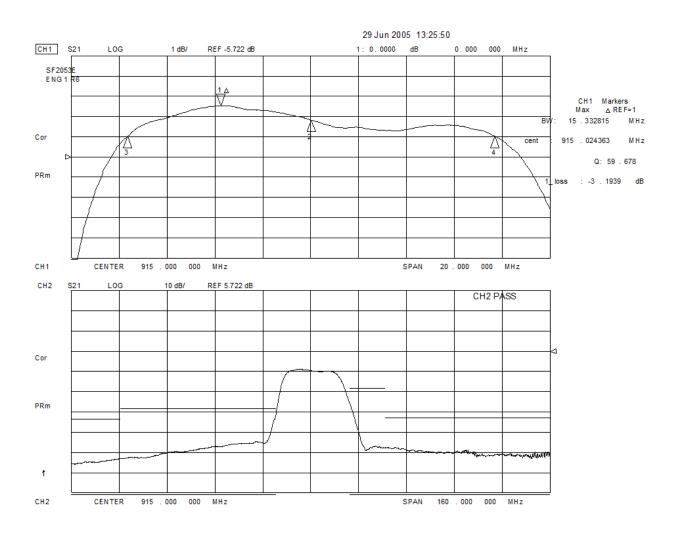
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50Ω and measured with 50Ω network analyzer.

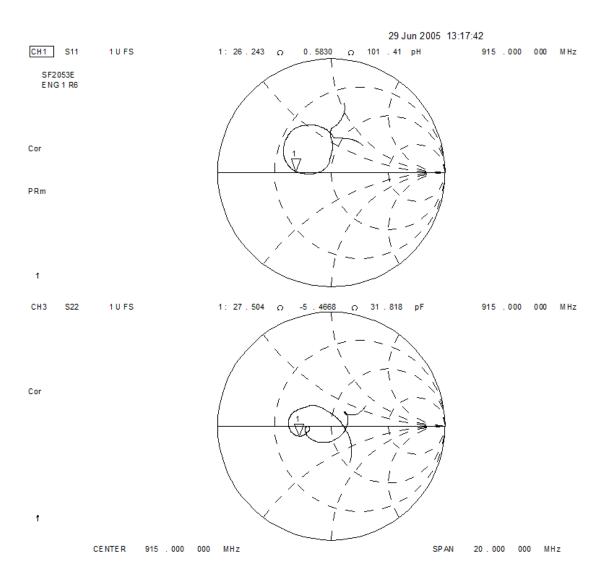
 Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.

 The design, manufacturing process, and specifications of this filter are subject to change.

- US and international patents may apply.

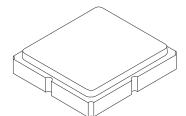
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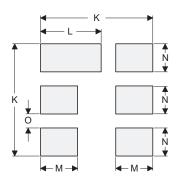




SM3030-6 Case

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





PCB Footprint Top View

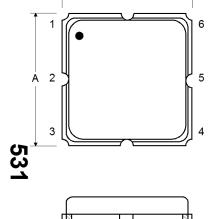
Case and PCB Footprint Dimensions

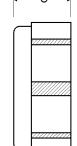
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.00	3.13	0.113	0.118	0.123
В	2.87	3.00	3.13	0.113	0.118	0.123
С	1.12	1.25	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038
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
K		3.20			0.126	
L		1.70			0.067	
М		1.05			0.041	
N		0.81			0.032	
0		0.38			0.015	

Case Materials

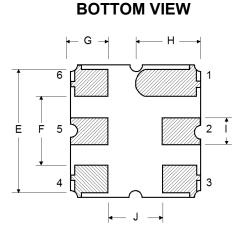
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

TOP VIEW

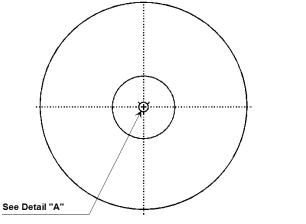


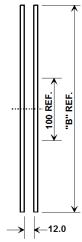


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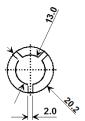


Tape and Reel Specifications





•	'B"	Quantity Per Reel	
Inches	millimeters	Quantity : or ricor	
7	178	500	
13	330	3000	



COMPONENT ORIENTATION and DIMENSIONS

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

