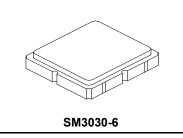




RFM products are now Murata products.

SF2098E

915 MHz **SAW Filter**



Absolute Maximum Ratings

 Low-loss 915 MHz SAW Filter · Designed for 50 ohm Source/Load

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

Rating	Value	Units
Input Power Level	+15	dBm
DC Voltage on any Non-ground Terminal	5	V
Operating Temperature Range	-40 to +125	°C
Component Storage Temperature Range	-40 to +125	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile, 5 cycles/10 seconds maximum	265	°C
Temperature Coefficient of Frequency	-36	ppm/°C

Electrical Characteristics

Characteristic (Operating Temperature -40°C to +85°C)	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			915		MHz
Insertion Loss, 902 to 928 MHz	IL			1.9	4.0	0
Amplitude Ripple, 902 to 928 MHz				1.0	3.2	dB
VSWR, 902 to 928 MHz				1.8:1	2.2:1	
Attenuation, Referenced to 0 dB:						dB
10 to 800 MHz			35	37		
800 to 888 MHz at 25°C			36	38		
800 to 888 MHz at -40°C to +85°C			29	38		
888 to 890 MHz 25°C			24	31		
888 to 890 MHz at -40°C to +85°C			22	31		
890 to 894 Mhz			5	18		
940 to 941 MHz			27	47		
941 to 967 MHz			35	49		
967 to 1350 MHz			37	39		
1350 to 1600 MHz			35	42		
1600 to 2000 MHz			30	45		
2000 to 2500 MHz			28	35		
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		A66. YWWS				

Case Style	SM3030-6 3.0 x 3.0 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	A66, YWWS
Standard Reel Quantity, 7 inch Reel Size	500 Pieces/Reel
Standard Reel Quantity, 13 inch Reel Size	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 50Ω and measured with 50Ω network analyzer.

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."
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.

US and international patents may apply.

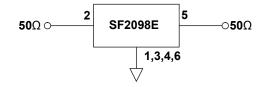
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Electrical Characteristics

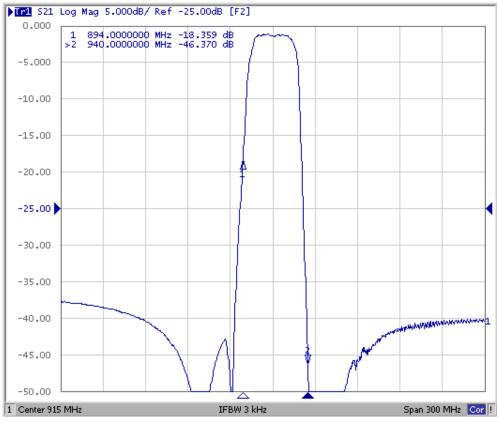
Characteristic (Operating Temperature -40°C to +125°C)	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			915		MHz
Insertion Loss, 902 to 928 MHz	IL			1.9	4.5	dB
Amplitude Ripple, 902 to 928 MHz				1.0	3.7	dB
VSWR, 902 to 928 MHz				1.8:1	2.5:1	
Attenuation, Referenced to 0 dB:						dB
10 to 800 MHz			35	37		
800 to 888 MHz at 25°C			36	38		
800 to 888 MHz at -40°C to +125°C			15	38		
888 to 890 MHz 25°C			24	31		
888 to 890 MHz at -40°C to +125°C			10	31		
940 to 941 MHz			27	47		
941 to 967 MHz			35	49		
967 to 1350 MHz			37	39		
1350 to 1600 MHz			35	42		
1600 to 2000 MHz			30	45		
2000 to 2500 MHz			28	35		
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	A66, YWWS					
Standard Reel Quantity, 7 inch Reel Size	500 Pieces/Reel					
Standard Reel Quantity, 13 inch Reel Size	3000 Pieces/Reel					

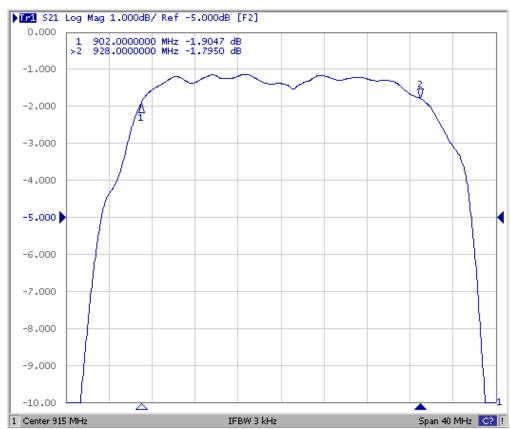
Electrical Connections

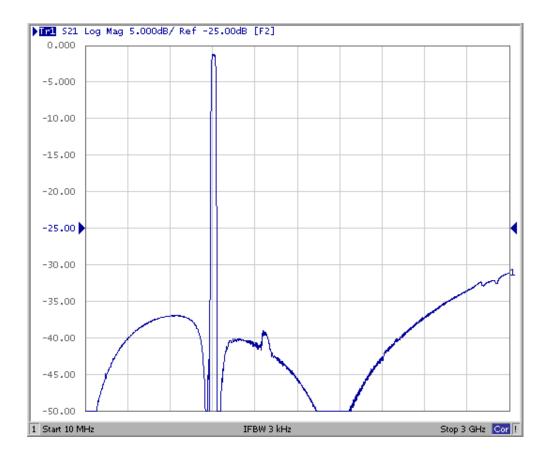
Connection	Terminals
Input	2
Output	5
Case Ground	All others



Filter Response Plots

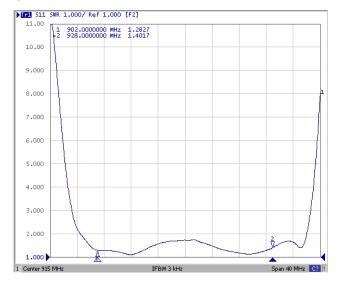






Filter SWR Plots

S11



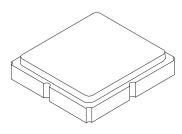
S22

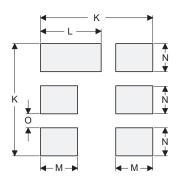


SM3030-6 Case

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

Case and PCB Footprint Dimensions





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
Ш	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
H	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	
┙		1.70			0.067	
М		1.05			0.041	
N		0.81			0.032	
0		0.38			0.015	

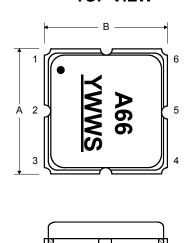
Case Materials

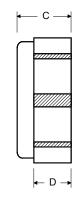
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

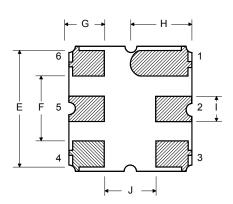
Electrical Connections

Connection	Terminals
Input	2
Output	5
Case Ground	All others

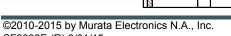
TOP VIEW





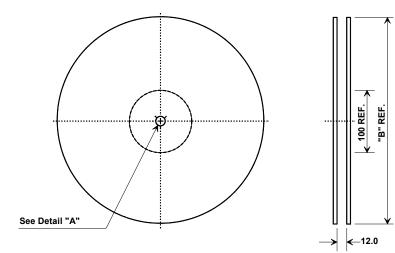


BOTTOM VIEW

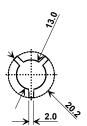


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Tape and Reel Specifications

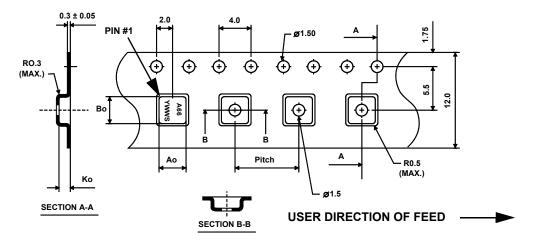


"B"		Quantity Per Reel
Inches	millimeters	Quantity Fer Reer
7	178	500
13	330	3000



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			



单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)