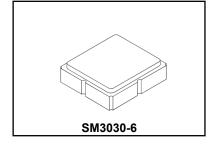


RFM products are now Murata products.

SF2036E

1880 MHz **SAW Filter**



· Low Insertion Loss L-Band SAW Filter

- 3.0 X 3.0 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units	
Maximum Incident Power in Passband	+10	dBm	
DC Voltage on any Non-ground Terminal	5	V	
Operating Temperature Range	-30 to +85 °C		
Storage Temperature Range in Tape and Reel -40 to +85		°C	
Maximum Soldering Profile, 5 Cycles Maximum	265 °C for 10 s		

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			1880	•	MHz
Insertion Loss, 1850 to 1910 MHz	IL			2.45	4.0	dB
Amplitude Ripple, 1850 to 1910 MHz				1.2	2.5	dB _{P-P}
Attenuation Referenced to 0 dB:						
DC to 1660 MHz			20	32		dB
1660 to 1721 MHz			30	35		dB
1721 to 1800 MHz			20	37		dB
1930 to 1990 MHz			7	19		dB
2000 to 2040 MHz			25	37		dB
2040 to 2480 MHz			31	38		dB
3700 to 3820 MHz			25	35		dB
Input/Output Return Loss, 1850 to 1910 MHz			7.4	13		dB
Source Impedance	Z _S			50		Ω
Load Impedance	Z _L			50		Ω
Case Style		SM3030-6 3 x 3 mm Nominal Footprint				
Lid Symbolization, Y=year, WW=week, S=shif				510 YWWS		

Electrical Connections

Connection	Terminals	
Input	2	
Output	5	
Ground	All others	



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

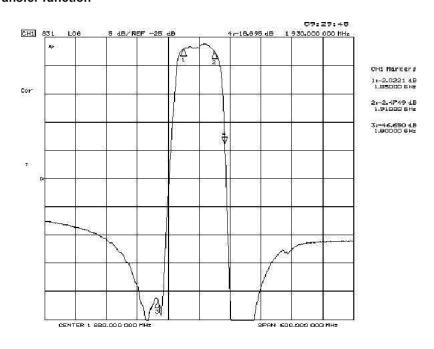
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50Ω and measured with 50Ω network analyzer.

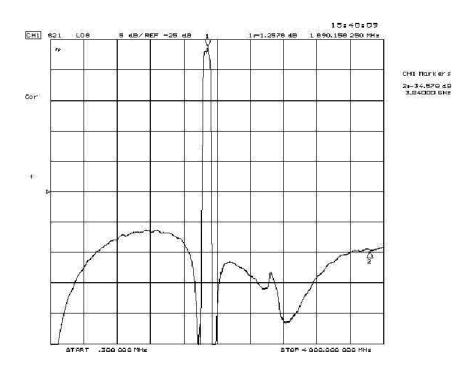
 Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.

 Rejections measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external interesting the passband of the property of the passband of the property of the passband o
- impedance matching design. See Application Note No. 42 for details.
- The design, manufacturing process, and specifications of this filter are subject to change.
- US and international patents may apply.

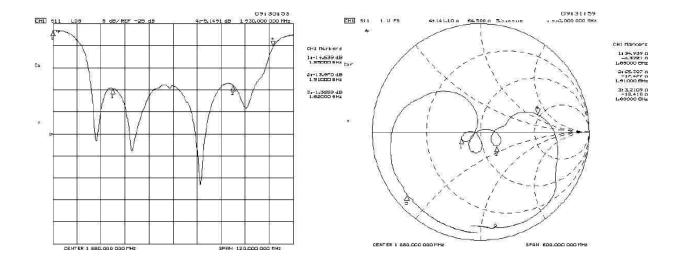
 Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Frequency Characteristics : Transfer function

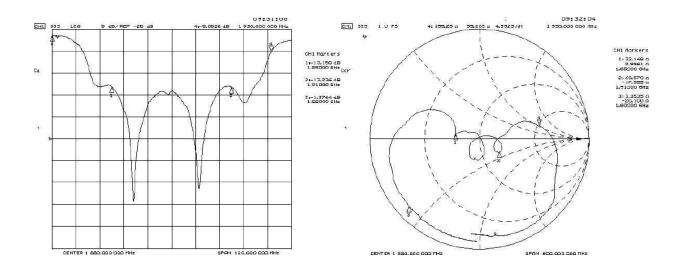




S11



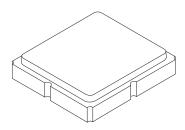
S22

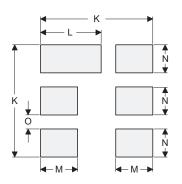


SM3030-6 Case

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

Case and PCB Footprint Dimensions





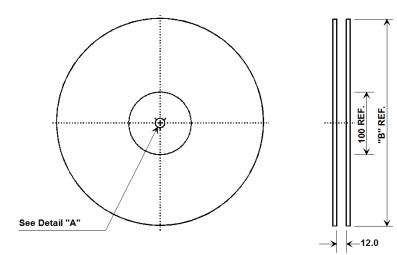
PCB Footprint Top View

	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
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	

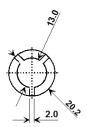
Case Materials

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				

Tape and Reel Specifications



"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions				
Ao	3.35 mm			
Во	3.35 mm			
Ko	1.4 mm			
Pitch	8.0 mm			
W	12.0 mm			

