



SF2261E

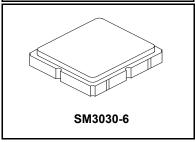
- · 880 MHz Low-loss SAW Filter, 60 MHz Bandwidth
- Surface Mount 3.0 x 3.0 x 1.3 mm Package
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	15	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range	-40 to +95	°C
Solder Reflow Temperature, 10 seconds, 5 cycles maximum	260	°C





Electrical Characteristics

Characteristic		Notes	Min	Тур	Max	Units	
Center Frequency				880		MHz	
2 dB Passband, 850 to 910 MHz			60			MHz	
Minimum Passband Insertion Loss	IL _{MIN}			1.6	2.5	dB	
Amplitude Variation 865 to 895 MHz				0.3	1.0	dB _{P-P}	
Return Loss, 850 to 910 MHz			8.0	9.0		dB	
Attenuation, Referenced to 0 dB							
DC to 800 MHz			20	22			
1003 to 1028 MHz 1730 to 1780 MHz			25	29		dB	
			25	32			
Source Impedance				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	A14, 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.

3.

matching to 50 Ω and measured with 50 Ω 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."

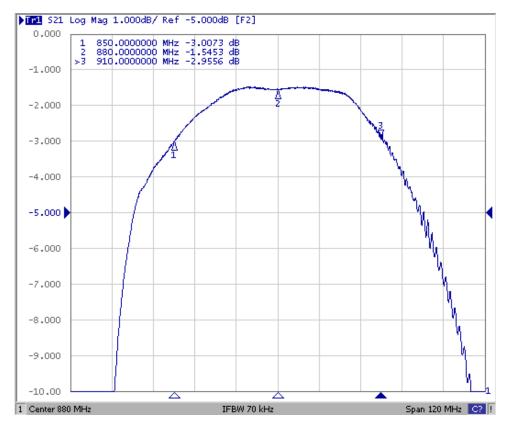
The design, manufacturing process, and specifications of this filter are subject to change.

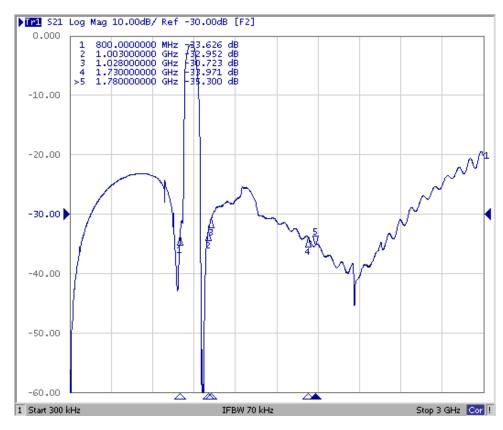
Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2 and Port 1 and Port 1 and Port 2 and Port 2 may be used for either input or output in the design. 2, so that the filter must always be installed in one direction per the circuit design.

US and international patents may apply.

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Filter Response Plots





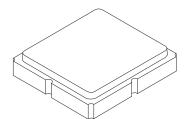
Filter I/O Return Loss Plots

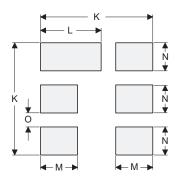




SM3030-6 Case

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





PCB Footprint Top View

Case and PCB Footprint Dimensions

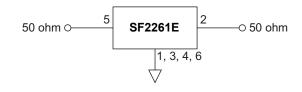
Dimension	mm			Inches			
Dilliension	Min	Nom	Max	Min	Nom	Max	
Α	2.87	3.00	3.13	0.113	0.118	0.123	
В	2.87	3.00	3.13	0.113	0.118	0.123	
С	1.12	1.25	1.38	0.044	0.049	0.054	
D	0.77	0.90	1.03	0.030	0.035	0.040	
E	2.67	2.80	2.93	0.105	0.110	0.115	
F	1.47	1.60	1.73	0.058	0.063	0.068	
G	0.72	0.85	0.98	0.028	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				

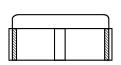
Electrical Connections

Connection	Terminals
Input	2
Output	5
Ground	All Others

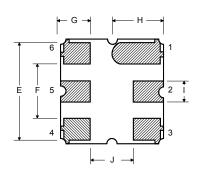


TOP VIEW

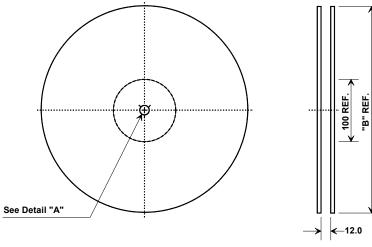
B 6 4 4



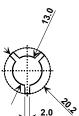
BOTTOM VIEW



Tape and Reel Specifications



•	'B"	Quantity Per Reel
Inches	millimeters	quantity : or recor
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			

