

Discontinued

SF2183E

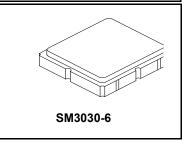
- Low-low UHF SAW Filter
- Surface-mount 3.0 x 3.0 mm Package
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage on any Non-ground Terminal	6	V
Operating Temperature Range	-40 to +85	°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

400.00 MHz **SAW Filter**



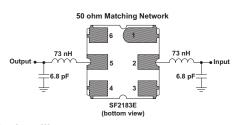
Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units	
Center Frequency	f _C			400.00		MHz	
Minimum Insertion Loss	IL _{MIN}			3.0	4.0	40	
Passband Attenuation Relative to IL _{MIN} , 399.875 to 400.125 MHz				0.7	3.0 dB		
Stopband Attenuation Referenced to IL _{MIN} :							
10.0 to 370.0 MHz			50	56			
370.0 to 390.0 MHz			42	46			
390.0 to 398.8 MHz			22	25		-10	
401.0 to 409.0 MHz			10	22		dB	
409.0 to 414.0 MHz			30	40			
414.0 to 800.0 MHz			42	50			
800.0 to 2500.0 MHz			45	55		1	
Input Impedance	Z _S			865 Ω 2 pF			
Output Impedance	Z _L			865 Ω 2 pF			

Case Style	SM3030-6 3.0 x 3.0 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	871, 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.

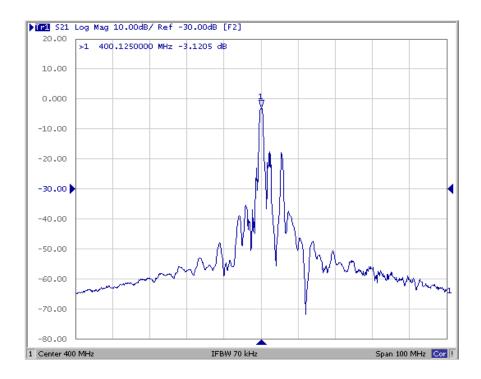
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to
- Onless indeed differential and apply of the state of the 3.
- The design, manufacturing process, and specifications of this filter 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, 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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SF2183E Wideband Response, 100 MHz Span

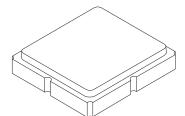


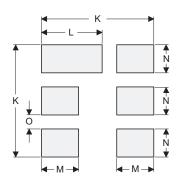
SF2183E Passband Response, 4 MHz Span



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

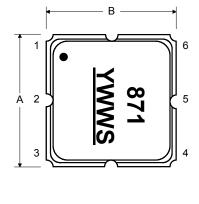
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.00	3.13	0.113	0.118	0.123
В	2.87	3.00	3.13	0.113	0.118	0.123
С	1.12	1.25	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038
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	

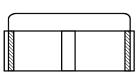
Case Materials

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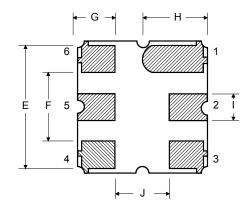
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

TOP VIEW

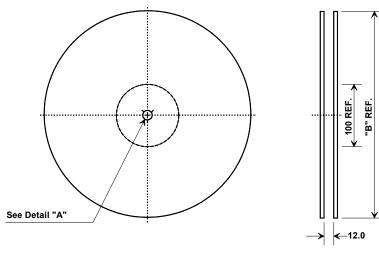




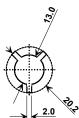
BOTTOM VIEW



Tape and Reel Specifications



"B"		Quantity Per Reel	
Inches	millimeters	Quality Fel Neel	
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			

