Preliminary



RFM products are now Murata products.

SF2361E

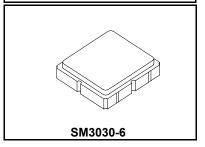
Absolute Maximum Ratings

· Low-loss 428 MHz SAW Filter • Designed for 50 ohm Source/Load

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

Rating	Value	Units
Input Power Level	+10	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile, 5 cycles/10 seconds maximum	260	°C

428 MHz **SAW Filter**

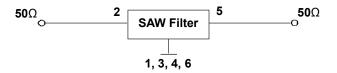


Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	fC			428		MHz
Insertion Loss (420 to 436 MHz)	IL			1.5	3.5	dB
Amplitude Ripple (420 to 436 MHz)				0.8	1.8	dB
Attenuation Reference level from 0 dB	•			•	•	
128 to 400 MHz			45	51		
470 to 728 MHz			45	49		dB
Temperature Coefficient of Frequency				-36		ppm/k
Case Style		6 3.0 x 3.0 m	m Nominal Fo	otprint		
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	or B25, 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.

Notes:

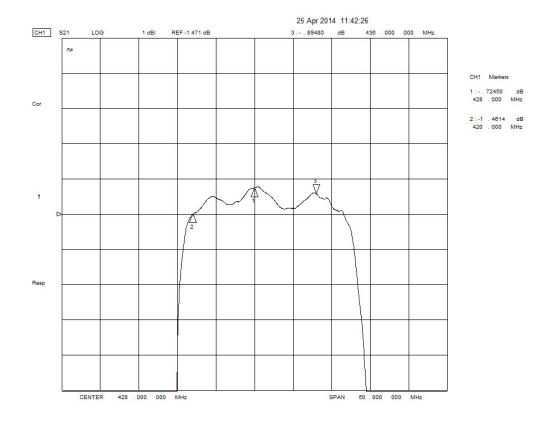
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- Unless noted otherwise, all frequency specifications are referenced to the nominal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

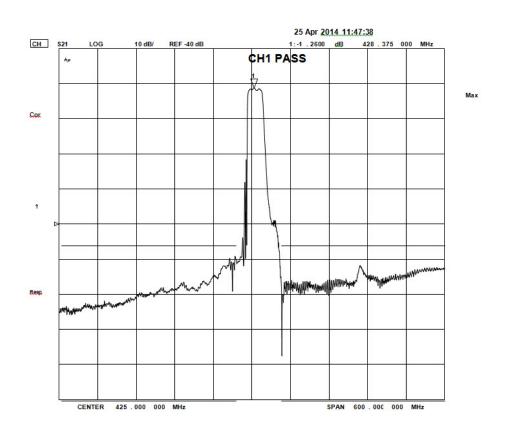
 Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.

 "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.
- 7
- US and international patents may apply.

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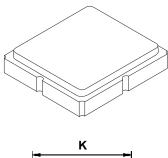
Frequency Characteristics:

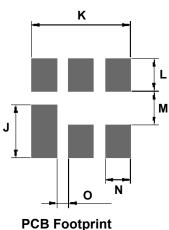




SM3030-6 Case

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





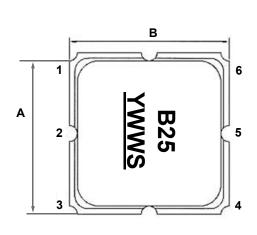
Case and PCB Footprint Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
Α	2.85	3.00	3.15	0.112	0.118	0.124
В	2.85	3.00	3.15	0.112	0.118	0.124
С	-	-	1.40	-	-	0.055
D	2.39	2.54	2.69	0.094	0.100	0.105
E	1.45	1.60	1.75	0.057	0.062	0.068
F	0.70	0.85	0.90	0.027	0.033	0.003
G	1.35	1.50	1.65	0.053	0.059	0.064
Н	0.45	0.60	0.75	0.017	0.023	0.029
I	1.15	1.30	1.45	0.045	0.051	0.057
J	-	1.70		-	0.066	-
K	-	3.20	-	-	0.125	-
L	-	1.05	-	-	0.041	-
M	-	1.09	-	-	0.042	-
N	-	0.81	-	-	0.031	-
0	-	0.38	-	-	-0.014	-

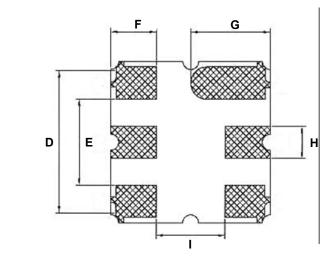
Case Materials

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

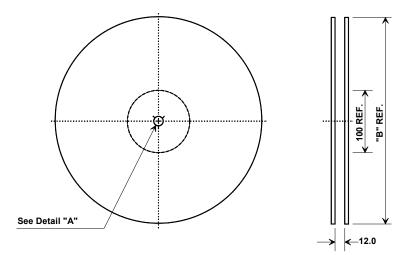


BOTTOM VIEW

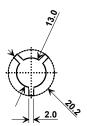


С

Tape and Reel Specifications



•	'B"	Quantity Per Reel
Inches	millimeters	Qualitity Fel Reel
7	178	500
13	330	3000



COMPONENT ORIENTATION and DIMENSIONS

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

