

• Steep Roll-off SAW Filter for 869.00 MHz Unlicensed band

- Complies with Directive 2002/95/EC (RoHS)
- No Matching Required for Operation in 50 Ω Environment

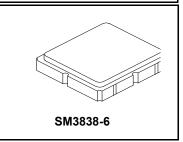


Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	17	dBm
DC Voltage Between any Two Pins	3	V
Operating Temperature Range	-20 to +70	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C

SF2137D

869.00 MHz **SAW Filter**



Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	F _C			869.00		MHz
Insertion Loss, 868 to 870 MHz	IL			2.9	4.0	
Amplitude Ripple, p-p, 868 to 870 MHz				0.2	1.5	
Attenuation Relative to 0 dB:						
825 to 828 MHz			40	47		dB
835 to 842 MHz			30	38		
891 to 894 MHz			30	43		
910 to 913 MHz			40	48		
Source Impedance	Z _S			50		Ω
Load Impedance	ZL			50		Ω
Case Style			S	M3838-6		
Lid Symbolization, Y=year, WW=week, S=shift, dot=pin 1 indicator	indicator A33, YWWS					
Standard Reel Quantity Reel Size 7 Inch	1000 Pieces/Reel					
Reel Size 13 Inch	3000 Pieces/Reel					

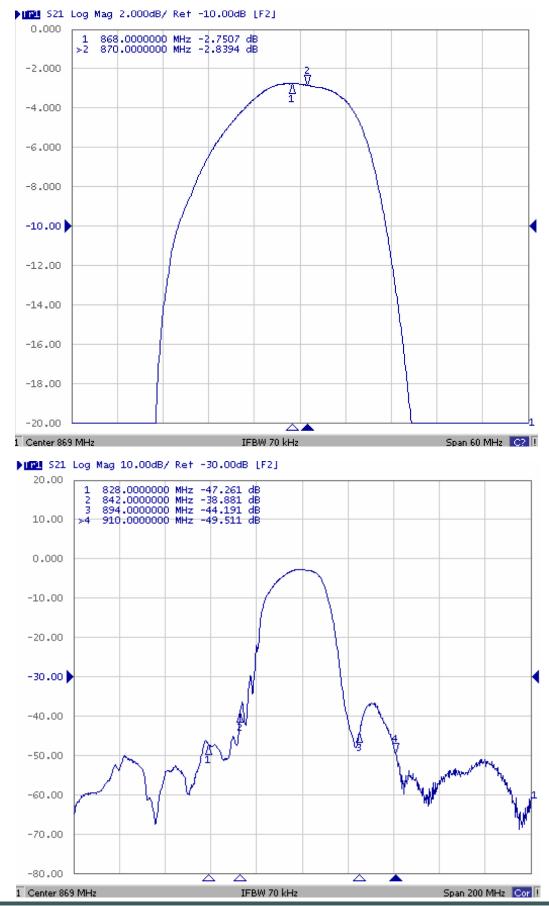
Electrical Connections

Connection	Terminals
Port 1	2
Port 2	5
Case Ground	All others

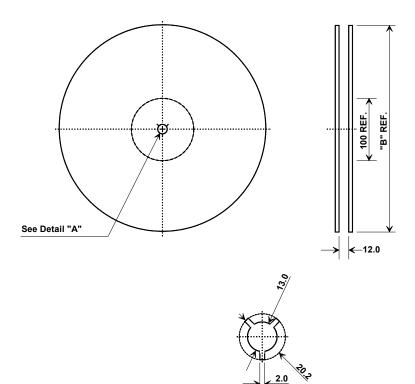
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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. 1.
- 2
- Indicining to 50 and inclusion and the state with 50 state 3. impedance matching design. See Application Note No. 42 for details.
- 4. The design, manufacturing process, and specifications of this filter are subject to change.
- 5. US and international patents may apply.
- 6. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.



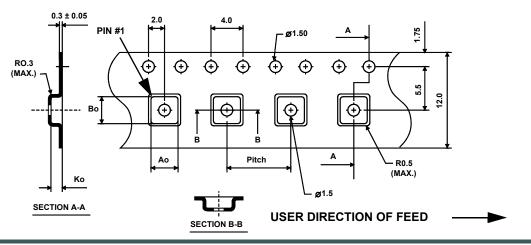
Tape and Reel Specifications



"	'B"	Quantity Per Reel
Inches	millimeters	
7	178	1000
13	330	3000

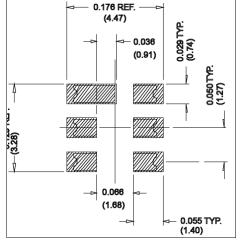
COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	4.25 mm
Во	4.25 mm
Ко	1.30 mm
Pitch	8.0 mm
W	12.0 mm



SM3838-6 Case

6-Terminal Ceramic Surface-Mount Case 3.8 X 3.8 mm Nominal Footprint



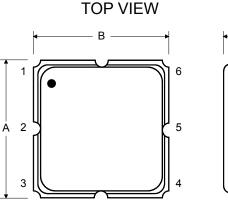
PCB Footprint

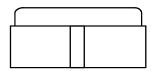
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
Α	3.60	3.80	4.0	0.14	0.15	0.16
В	3.60	3.80	4.0	0.14	0.15	0.16
С	1.07	1.25	1.43	0.05	0.06	0.067
D	0.95	1.10	1.25	0.037	0.043	0.05
E	2.39	2.54	2.69	0.090	0.10	0.110
G	0.90	1.0	1.10	0.035	0.04	0.043
Н	1.90	2.0	2.10	0.75	0.08	0.83
I	0.50	0.6	0.70	0.020	0.024	0.028
J	1.70	1.8	1.90	0.067	0.07	0.075

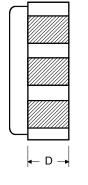
Electrical Connections

Connection		Terminals		
Port 1	Single-ended Input	2		
Port 2	Single-ended Output	5		
	Ground	All others		
Single-ended Operation Only				
Dot indicates Pin 1				

	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					

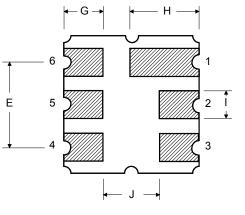






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BOTTOM VIEW



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Murata: SF2137D