

Steep Roll-off Filter for 869.00 MHz Unlicensed band

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

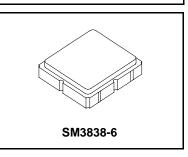


Absolute Maximum Ratings

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	A33, YWWS					
Standard Reel Quantity Reel Size 7 Inch	1000 Pieces/Reel					
Reel Size 13 Inch	3000 Pieces/Reel					

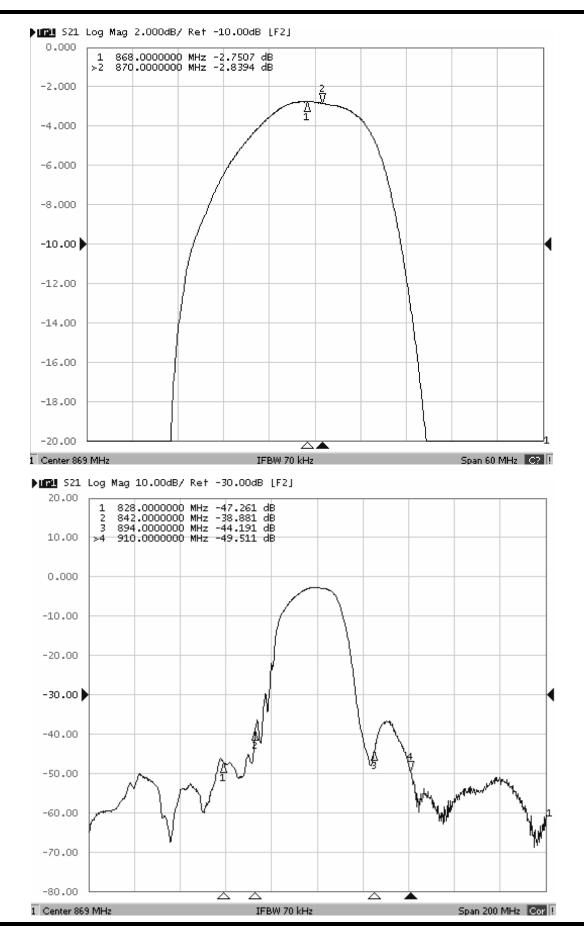
Electrical Connections

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



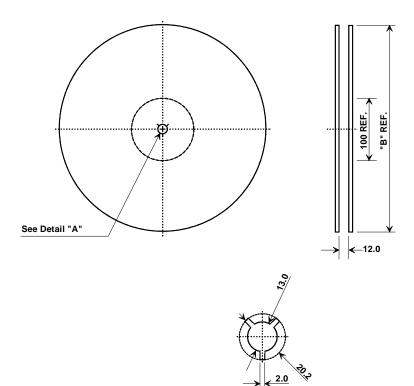
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. Notes:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance 1.
- 2
- Unless noted otherwise, all specifications apply over the operating temperating temperati 3.
- 4. The design, manufacturing process, and specifications of this filter are subject to change.
- 5.
- US and international patents may apply. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc. 6.



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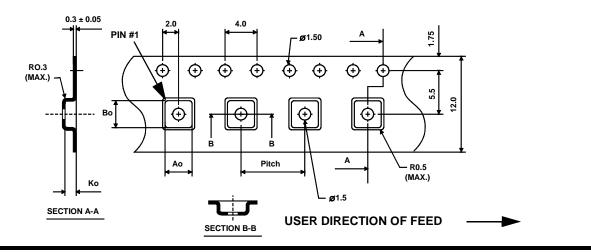
Tape and Reel Specifications



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

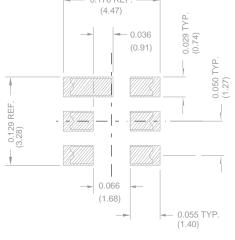
COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions				
Ао	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

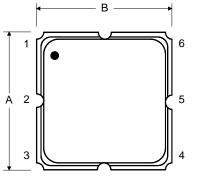
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
Α	3.60	3.80	4.0	0.14	0.15	0.16
В	3.60	3.80	4.0	0.14	0.15	0.16
С	1.07	1.25	1.43	0.05	0.06	0.067
D	0.95	1.10	1.25	0.037	0.043	0.05
E	2.39	2.54	2.69	0.090	0.10	0.110
G	0.90	1.0	1.10	0.035	0.04	0.043
Н	1.90	2.0	2.10	0.75	0.08	0.83
I	0.50	0.6	0.70	0.020	0.024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

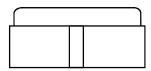
Electrical Connections

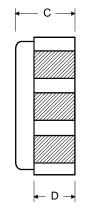
Connection		Terminals		
Port 1	Single-ended Input	2		
Port 2	Single-ended Output	5		
	Ground	All others		
Single-ended Operation Only				
Dot indicates Pin 1				

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				

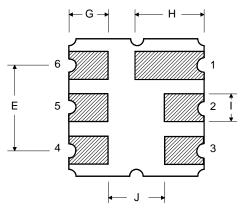








BOTTOM VIEW



0.176 REF. ____