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SF2137E

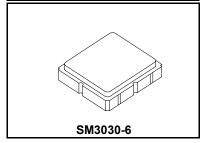
- Steep Roll-off Filter for 869.00 MHz Unlicensed Band
- Complies with Directive 2002/95/EC (RoHS)
- No Matching Required for Operation in 50Ω Environment



Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	17	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	265	°C





Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			869.00		
Bandwidth, 1 dB				11		MHz
Bandwidth, 3 dB				17		1
Insertion Loss, 868 to 870 MHz	IL			2.8	4.0	dB
Amplitude Ripple, 868 to 870 MHz				0.2	1.5	dB _{P-P}
Attenuation Referenced to 0 dB:						
825 to 828 MHz			40	47		
835 to 842 MHz			30	39		dB
891 to 894 MHz			30	42		ив
910 to 913 MHz			40	47		
Source Impedance	Z _S			50		Ω
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	711, YWWS	
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel	
Reel Size 13 Inch	3000 Pieces/Reel	

Electrical Connections

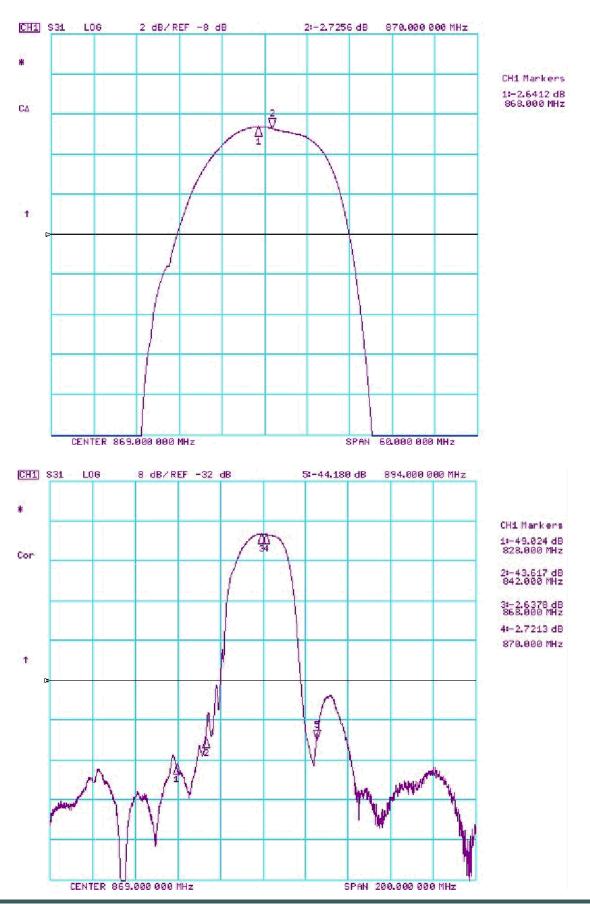
Connection	Terminals
Port 1	2
Port 2	5
Case Ground	All others

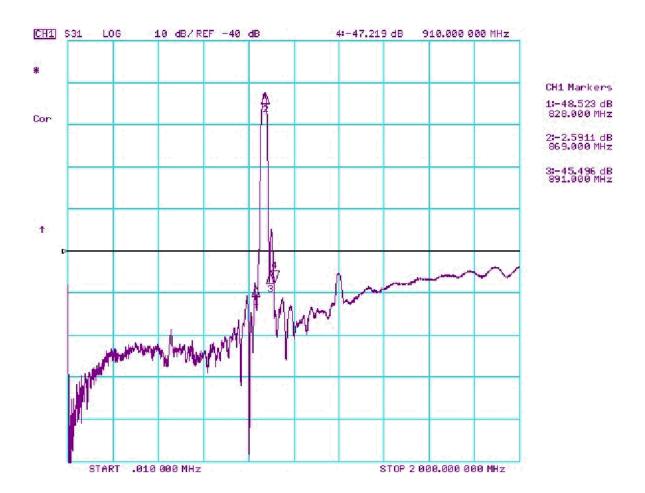


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 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.
- 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.
- The design, manufacturing process, and specifications of this filter are subject to change.
- US and international patents may apply.

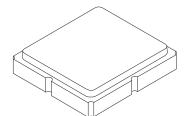
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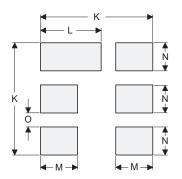




SM3030-6 Case

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





PCB Footprint Top View

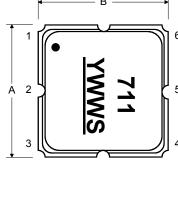
Case and PCB Footprint Dimensions

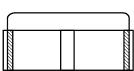
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.00	3.13	0.113	0.118	0.123
В	2.87	3.00	3.13	0.113	0.118	0.123
С	1.12	1.25	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038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

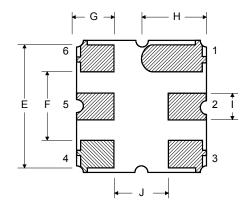
Materials			
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel		
Lid Plating	2.0 to 3.0 µm Nickel		
Body	Al ₂ O ₃ Ceramic		
Pb Free			

Top View



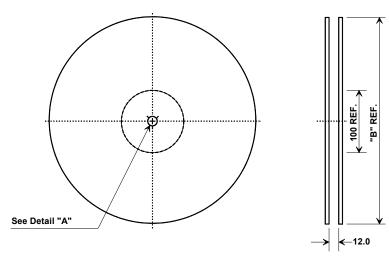


Bottom View

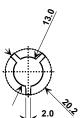


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Tape and Reel Specifications

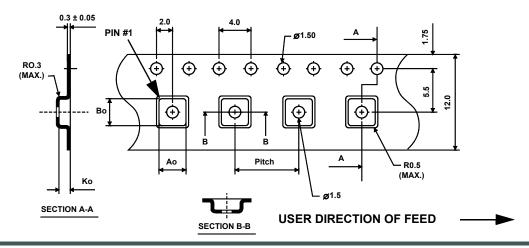


"B"		Quantity Per Reel	
Inches	millimeters	Qualitity i el ixeel	
7	178	500	
13	330	3000	

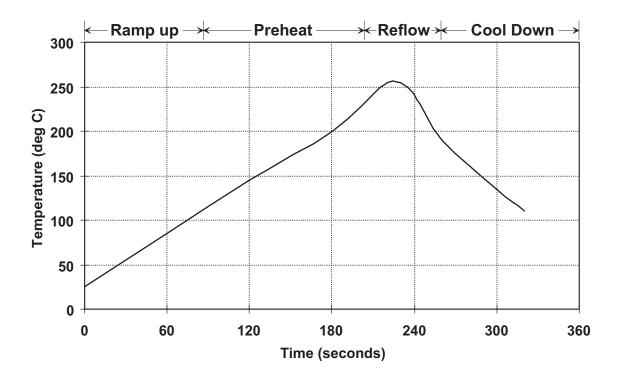


COMPONENT ORIENTATION and DIMENSIONS

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



Typical Solder Reflow Profile



单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)