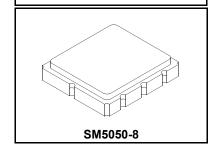


Preliminary

SF2065C

- 743.00 MHz **SAW Filter**



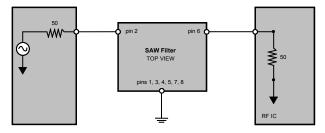
- · Low Insertion Loss UHF SAW Filter
- 5.0 x 5.0 x 1.7 mm Suface-mount Case
- No Matching Required
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage on any Non-ground Terminal	30	VDC
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 30 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			743.00	•	MHz
Insertion Loss, 740 to 746 MHz				2.6	4.5	dB
Amplitude Ripple, 740 to 746 MHz				0.7		dB _{P-P}
Attenuation Referenced to 0 dB:						
0.3 to 643 MHz			43	49		
643 - 693 MHz			40	46		1
693 - 720 MHz			35	42		1
766 - 793 MHz			35	45		dB
793 - 843 MHz			40	49		1
843 - 1000 MHz			38	45		1
1000 - 1500 MHz			25	33		1
Group Delay Deviation				45		ns _{P-P}
Source/Load Impedance (no matching required)				50		Ω
Operating Temperature Range	T _A	1	-10		+60	°C
Case Style	SM5050-8 5 X 5 mm Nominal Footprint					
Lid Symbolization (Y=year, WW=week S=shift)	551 YWWS					



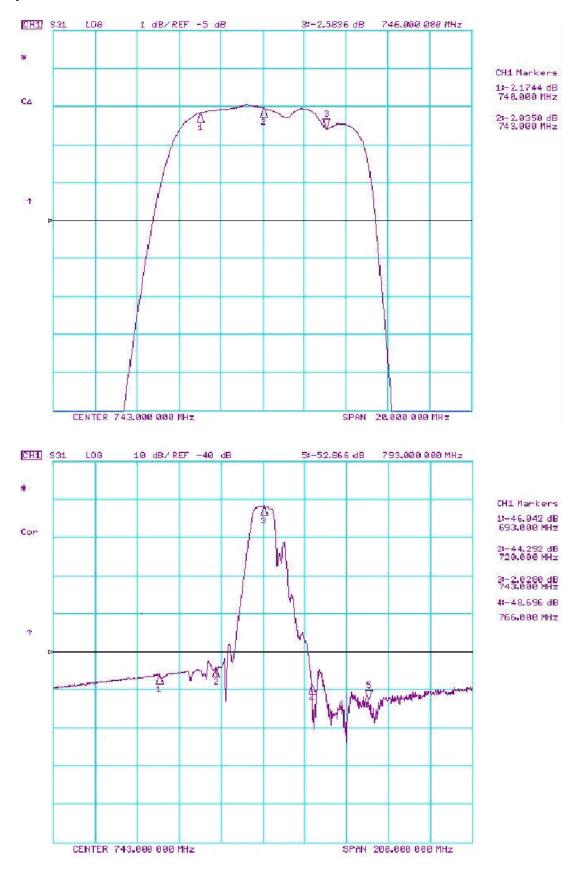
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

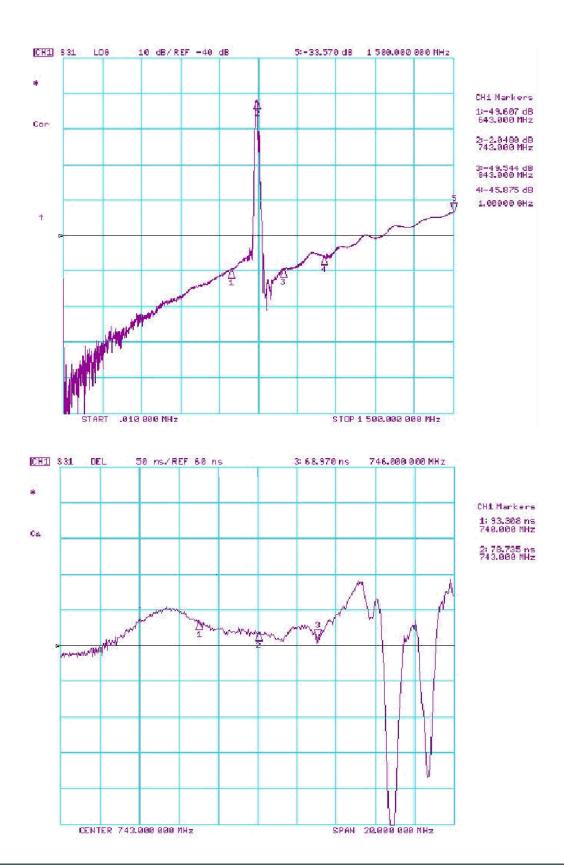
NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance 1. matching to 50 Ω and measured with 50 Ω network analyzer.
- 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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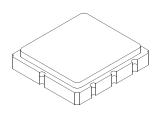
Filter Response Plots

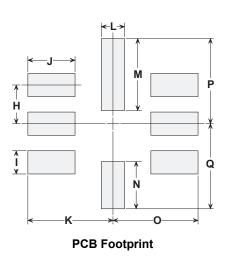




SM5050-8 Surface-Mount 8-Terminal Ceramic Case 5.0 X 5.0 mm Nominal Footprint







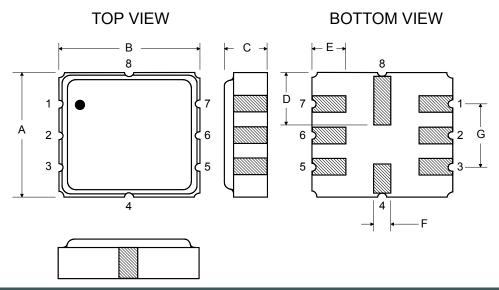
Succession Survey of the Surve							
Dimension	mm			Inches			
	Min	Nom	Max	Min	Nom	Max	
Α	4.80	5.00	5.20	0.189	0.197	0.205	
В	4.80	5.00	5.20	0.189	0.197	0.205	
С	1.30	1.50	1.70	0.050	0.060	0.067	
D	1.98	2.08	2.18	0.078	0.082	0.086	
E	1.07	1.17	1.27	0.042	0.046	0.050	
F	0.50	0.64	0.70	0.020	0.025	0.028	
G	2.39	2.54	2.69	0.094	0.100	0.106	
н		1.27			0.050		
I		0.76			0.030		
J		1.55			0.061		
K		2.79			0.110		
L		0.76			0.030		
М		2.36			0.093		
N		1.55			0.061		
0		2.79			0.110		
Р		2.79			0.110		
Q		2.79			0.110		

Case Materials

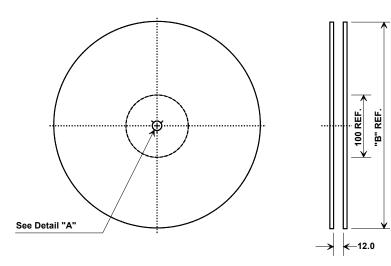
Materials				
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

Electrical Connections

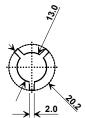
	Connection	Terminals			
Port 1	Input	2			
Port 2	Output	6			
	Ground	All others			
Dot indicates Pin 1					



Tape and Reel Specifications



"B" Nominal Size		Quantity Per Reel	
Inches	millimeters		
7	178	500	
13	330	3000	



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions			
Ao	5.3 mm		
Во	5.3 mm		
Ko	2.0 mm		
Pitch	8.0 mm		
W	12.0 mm		

