

Discontinued

• RF Filter for ISM Band Applications

• 2.0 x 1.6 x 0.9 mm Surface-Mount Case

Absolute Maximum Ratings

Rating	Value	Units	
Input Power Level	+20	dBm	
Maximum DC Voltage	5	VDC	
Operable Temperature Range	-45 to +125	°C	
Specification Temperature Range	-40 to +85	°C	
Storage Temperature Range	-40 to +85	°C	
Terminating Source Impedance (single) Z _S	50	Ω	
Terminating Load Impedance (single) ZL	50	Ω	
Maximum Soldering Profile	265 °C for 10 s		

869.225 MHz SAW Filter

SF2370H



Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			869.225		MHz
Insertion Loss (868.3 to 870.15 MHz)	IL			4.0	5.0	dB
Minimum Insertion Loss	αmin			3.0	3.5	dB
VSWR (868.3 to 870.15 MHz)				1.3	2.0:1	
Amplitude Ripple (868.3 to 870.15 MHz)				1.0	2.0	dB
Attenuation						
50 to 791 MHz			45	50		
791 to 848 MHz			35	40		dP
848 to 862 MHz			35	40		uв
880 to 883 MHz			35	40		
883 to 1000 MHz			45	50		
Case Style			S	M2016-4		
Lid Symbolization (Y=year, WW=week, S=shift)				5V YW		



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

- 1. 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.
- 2. 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.
- 4. "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."

- 5. 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.
- 8. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.
- 9. Electrostatic Sensitive Device. Observe precautions for handling.

Electrical Connections

Connection	Terminals		
Input	2		
Output	4		
Ground	All others		



Frequency Characteristics S21 Response: Span 100 MHz



S21 Response: Span 10 MHz



SM2016-4 Case

6-Terminal Ceramic Surface-Mount Case 2.0 X 1.6 mm Nominal Footprint

Case Dimensions



PCB Footprint, Top View





Dimension	mm			Inches			
	Min	Nom	Max	Min	Nom	Max	
Α	1.57	1.60	1.73	0.061	0.062	0.068	
В	1.97	2.00	2.13	0.077	0.078	0.083	
С	0.55	0.65	0.75	0.021	0.025	0.029	
D	-	0.10	-	-	0.003	-	
E	-	0.70	-	-	0.027	-	
F	-	0.50	-	-	0.019	-	
G	-	0.13	-	-	0.005	-	
Н	-	0.10	-	-	0.003	-	
Ι	-	1.80	-	-	0.070	-	
J	-	2.20	-	-	0.086	-	
ĸ	-	0.60	-	-	0.023	-	
L	-	0.80	-	-	0.031	-	

TOP VIEW

BOTTOM VIEW





Tape and Reel Specifications



COMPONENT ORIENTATION and DIMENSIONS

