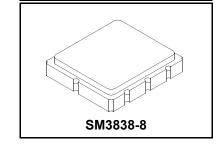


Discontinued

SF2437D

- 480 MHz

SAW Filter



- High Performance SAW Filter
- 3.8 x 3.8 mm Surface-mount Package
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage Between any Two Active Terminals	3	VDC
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-40 to +85	°C
Storage Temperature Range	-40 to +95	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 10 sec	

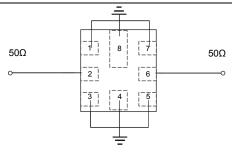
Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units	
Center Frequency	f _C			480		MHz	
Insertion Loss (470 to 482 MHz)				2.4	3.5	40	
(482 to 490 MHz)	ILmin			1.8	3.0	dB	
Amplitude Ripple (470 to 490 MHz)				1.9	2.5	dB	
Attenuation (Reference level from 0dB)							
0 to 350 MHz			40	45		1	
350 to 450 MHz			23	28		dB	
500 to 518 MHz			34	40		- - an	
540 to 560 MHz			36	43			
560 to 600 MHz			36	39		1	
Temperature Coefficient of Frequency				-36		ppm/k	

Case Style	3.8 x 3.8 mm Nominal Footprint
Lid Symbolization, Y=year, WW=week, S=shift, Dot=pin 1 indicator	B47, <u>YWWS</u>

Electrical Connections

Connection	Terminals		
Input	2		
Output	6		
Case Ground	All others		



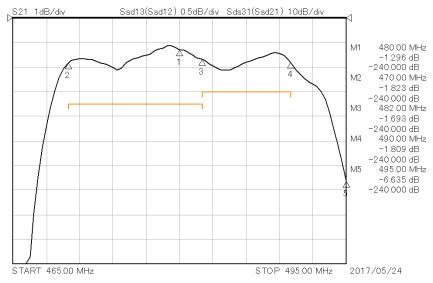
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

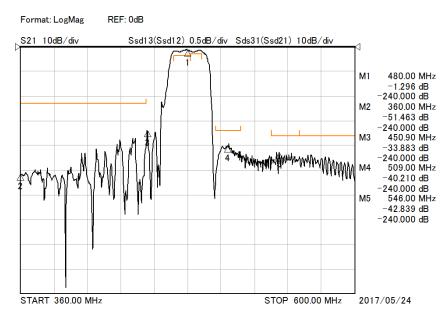
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network ana-
- Unless noted otherwise, all frequency specifications are referenced to the nominal center 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.
- "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."
 The design, manufacturing process, and specifications of this filter are
- subject to change.

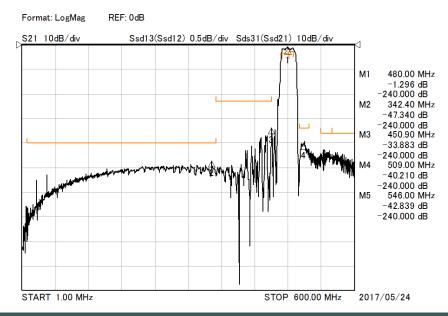
 Either Port 1 or Port 2 may be used for either input or output in the design.
- However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
- US and international patents may apply.

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Frequency Characteristics

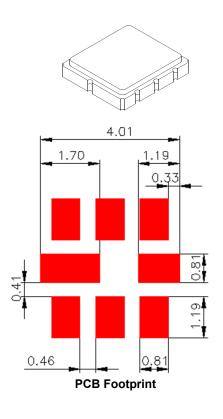






SM3838-8 Case

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

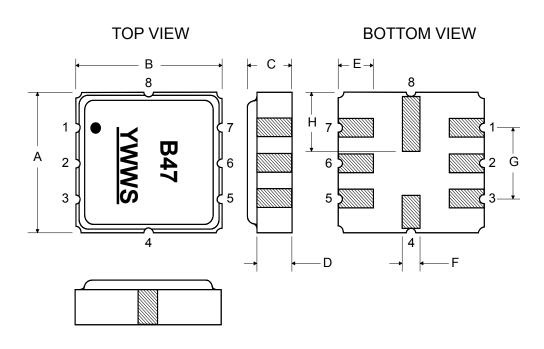


Case Dimensions

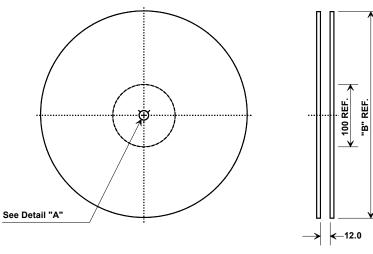
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
Α	3.65	3.8	3.95	0.14	0.15	0.155
В	3.65	3.8	3.95	0.14	0.15	0.155
С	-	-	1.40	-	-	0.055
D	-	1.10	-	-	0.043	-
E	-	1.0	-	-	0.04	-
F	-	0.6	-	-	0.024	-
G	-	2.54	-	-	0.100	-
Н	-	1.50	-	-	0.059	-

Case Materials

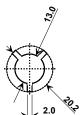
Materials			
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel		
Lid Plating	2.0 to 3.0 µm Nickel		
Body	Al ₂ O ₃ Ceramic		



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	4.25 mm
Во	4.25 mm
Ko	1.3 mm
Pitch	8.0 mm
W	12.0 mm

