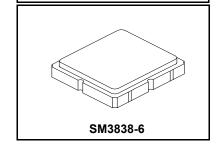




SF2307D

353.5 MHz **SAW Filter**



Low-loss SAW Filter

- 3.8 x 3.8 x 1.4 mm Surface-mount Package
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	15	dBm
Maximum DC Voltage on any Non-ground Terminal	3	VDC
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Operating Temperature Range	-30 to +80	°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			353.5		MHz
Insertion Loss	IL	1		1.5	3.5	dB
Bandwidth	BW			7		MHz
Amplitude Ripple, f _C ±3.5 MHz					3.0	dB _{P-P}
Rejection Referenced to IL:						
0.3 to 345.0 MHz			30	50		
360 to 362 MHz		1, 2, 3	6	23		dB
362 to 367 MHz			20	30		
367 to 2000 MHz			25	45		
VSWR, f _C ±3.5 MHz				1.5:1	2.0:1	

Case Style		SM3838-6 3.8 x 3.8 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator		A57, YWWS
Standard Reel Quantity	Reel Size 7 Inch	500 Pieces/Reel
Reel Size 13 Inch		3000 Pieces/Reel

Electrical Connections

Connection	Terminals
Input Port	2
Output Port	5
Ground	All others

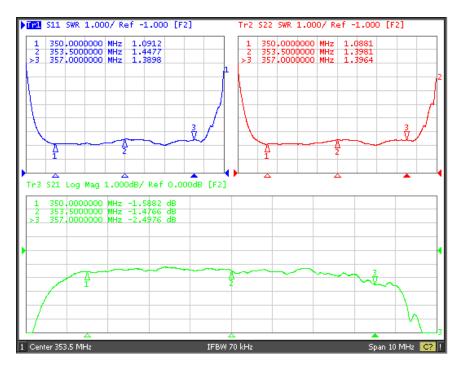
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

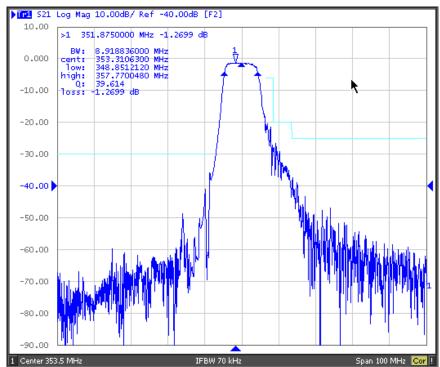
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network ana-
- Únless noted otherwise, all frequency specifications are referenced to the nominal center 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
- "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. 5.
- 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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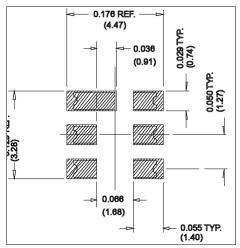
Filter Response Plots





SM3838-6 Case

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



PCB Footprint

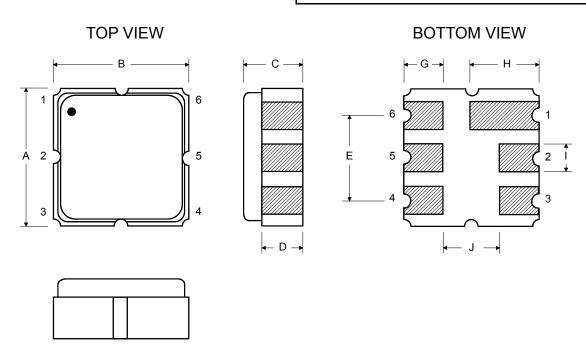
Case Dimensions

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

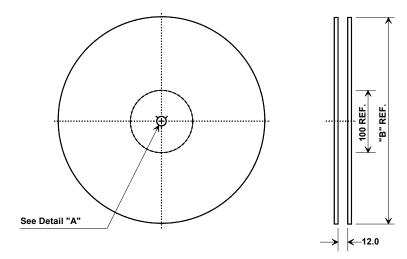
Electrical Connections

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			

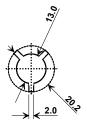
Materials		
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel	
Lid Plating	2.0 to 3.0 µm Nickel	
Body	Al ₂ O ₃ Ceramic	
Pb Free		



Tape and Reel Specifications

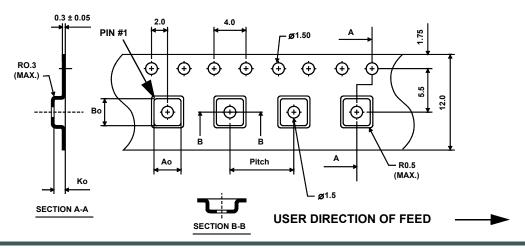


"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions			
Ao	4.25 mm		
Во	4.25 mm		
Ко	1.30 mm		
Pitch	8.0 mm		
W	12.0 mm		



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