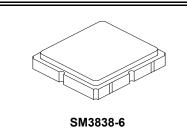


AEC-Q200

This component was always RoHS compliant from the first date of manufacture.

SF2349D

912.1 MHz SAW Filter



• 912.1 MHz RF SAW Filter

- 3.8 x 3.8 x 1.25 mm Surface-mount Package
- Complies with Directive 2002/95/EC (RoHS)

Pb

Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power Level	+10	dBm
Maximum DC Voltage Between any Two Terminals	5	VDC
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-20 to +65	°C
Storage Temperature Range	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260°C for 30 s	

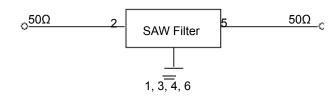
Electrical Characteristics

Industrial Characteristics						
Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C	1		912.1		MHz
Insertion Loss, 907.0 to 917.2 MHz	IL			2.95	4.1	dB
Amplitude Ripple 907.0 to 917.2 MHz				0.5	1.8	
Rejection Referenced to 0 dB:						
10 to 830 MHz			40	48		
830 to 890 MHz		100	30	41		dB
890 to 894 MHz		1, 2, 3	15			
930 to 960 MHz			14	27		
960 to 1200 MHz			40	46		
Single-ended Source Impedance		50 ohm				
Single-ended Load Impedance		50 ohm				

Case Style	SM3838-6 3.8 x 3.8 mm Nominal Footprint	
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	B17, <u>YWWS</u>	
Standard Reel Quantity Reel Size 7 Inch	1000 Pieces/Reel	
Reel Size 13 Inch	3000 Pieces/Reel	

Electrical Connections

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

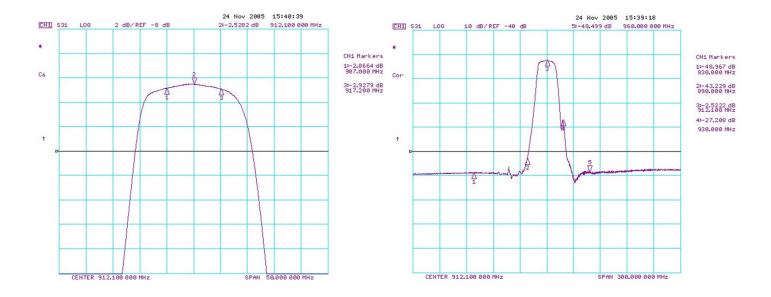


W

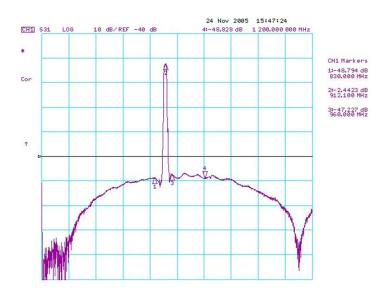
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. **NOTES:**

- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.

Transfer Function

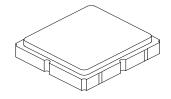


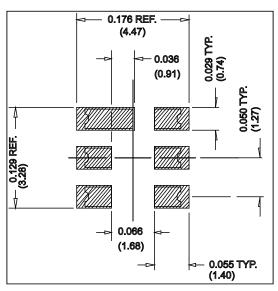
Wideband



SM3838-6 Case

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



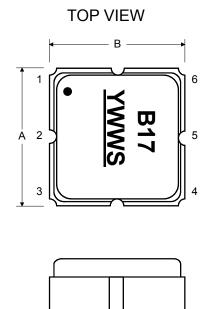


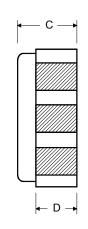
PCB Footprint

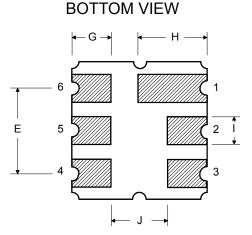
	Case Dimensions					
Dimension		mm			Inches	
	Min	Nom	Max	Min	Nom	Max
Α	3.60	3.80	4.0	0.14	0.15	0.16
В	3.60	3.80	4.0	0.14	0.15	0.16
С	1.30	1.50	1.70	0.05	0.06	0.067
D	0.95	1.10	1.25	0.037	0.043	0.05
E	2.39	2.54	2.69	0.090	0.10	0.110
G	0.90	1.0	1.10	0.035	0.04	0.043
Н	1.90	2.0	2.10	0.75	0.08	0.83
I	0.50	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	dy Al ₂ O ₃ Ceramic		
Pb Free			

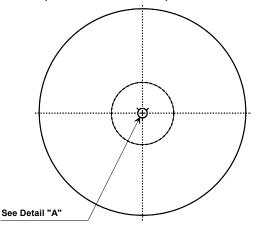


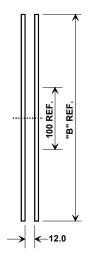




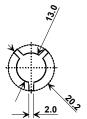
Tape and Reel Specifications

Tape and Reel Standard per ANSI/EIA-481



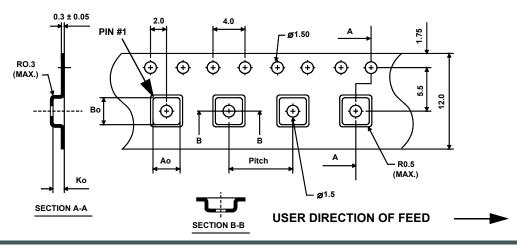


"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	1000
13	330	3000



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		



Recommended Reflow Profile

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).
- 4. Time: 5 times maximum.

