

AEC-Q200 RoHS Compliance This component is compliant with RoHS directive. This component was always RoHS compliant from the first

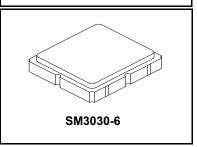
date of manufacture.

SF2395E

Surface Mount 3.0 x 3.0 mm Package

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage on any Non-ground Terminal	3	V
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C

1224 MHz **SAW Filter**

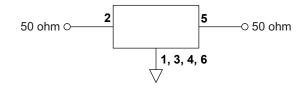


Electrical Characteristics - -40 to +85°C

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			1224		MHz
Insertion Loss, (1170 to 1278 MHz)	IL			4.4	5.5	dB
Pass Band Ripple, (1170 to 1278 MHz)				2.4	3.5	T UB
Group Delay Variation (1170 to 1278 MHz)				12	30	ns
Return Loss (1170 to 1278 MHz)			6	6.8		dB
Attenuation, Referenced from 0 dB:						
50 to 1025 MHz			18	27		dB
1320 to 2000 MHz			9	18		
Temperature coefficient of frequency				-80		Ppm/°C
Case Style		SM3030-6 3.0 x 3.0 mm Nominal Footprint				
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator		7A, YWWS				

Electrical Connections

Connection	Terminals
Input	2
Output	5
Case Ground	All others



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance
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- "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 6. 2, so that the filter must always be installed in one direction per the circuit design.
- 7.
- US and international patents may apply.

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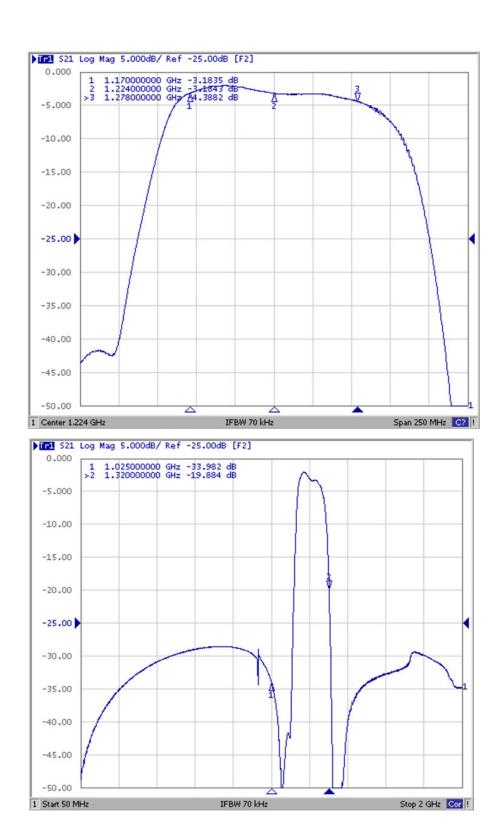
Absolute Maximum Ratings - -40 to +105°C

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage on any Non-ground Terminal	3	V
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-40 to +105	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C

Electrical Characteristics - -40 to +105°C

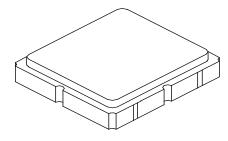
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Center Frequency	f _C			1224		MHz
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Pass Band Ripple, (1170 to 1278 MHz)				2.4	3.8	uБ
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1320 to 2000 MHz			9	18		
Temperature coefficient of frequency				-80		Ppm/°C

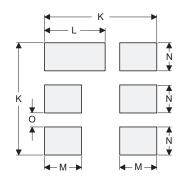
Frequency Characteristics



SM3030-6 Case

6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint





PCB Footprint Top View

Case and PCB Footprint Dimensions

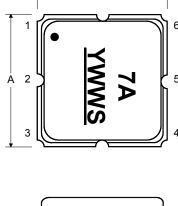
Dimension	mm		Inches			
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	2.99	3.00	3.01	0.117	0.118	0.118
В	2.99	3.00	3.01	0.117	0.118	0.118
С	-	-	1.40	-	-	0.054
D	-	0.90	-	-	0.035	-
E	2.39	2.54	2.69	0.094	0.110	0.105
F	1.45	1.60	1.75	0.057	0.063	0.068
G	0.70	0.85	1.00	0.027	0.033	0.039
Н	1.35	1.50	1.65	0.053	0.059	0.064
I	0.45	0.60	0.75	0.017	0.024	0.029
J	1.15	1.30	1.45	0.045	0.051	0.057
K	-	3.20	-	-	0.126	-
L	-	1.70	-	-	0.067	-
М	-	1.05	-	-	0.041	-
N	-	0.81	-	-	0.032	-
0	-	0.38	-	-	0.015	-

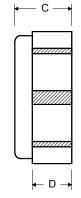
Case Materials

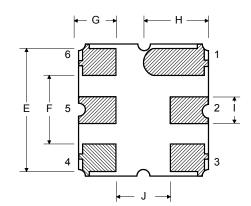
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

TOP VIEW

- B -

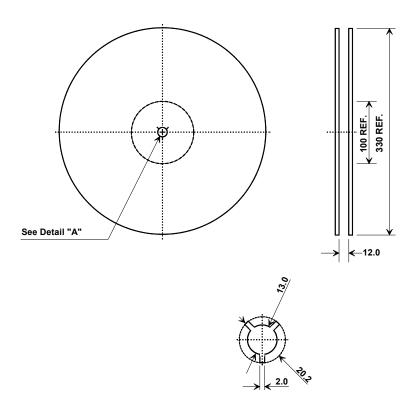






BOTTOM VIEW

Tape and Reel Specifications



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions				
Ao	3.35 mm			
Во	3.35 mm			
Ко	1.40 mm			
Pitch	8.0 mm			
W	12.0 mm			

