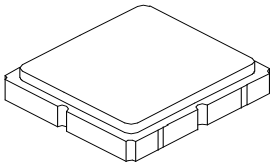
AEC-Q200
This component was always RoHS compliant from the first date of manufacture.

SF2469E-1

611 MHz SAW Filter



SM3030-6

Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+20	dBm
DC Voltage on any Non-ground Terminal	3	V
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-20 to +70	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Moisture Sensitivity Level	1	MSL
Minimum Soldering Profile, 5 Cycles Maximum	265°C for 10 seconds	

Electrical Characteristics

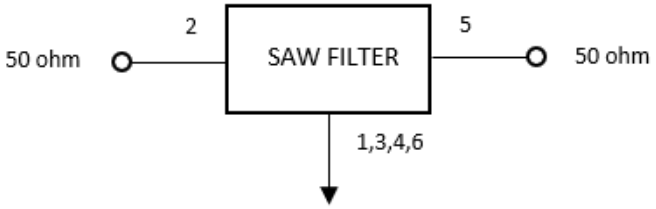
Characteristic		Sym	Notes	Min	Typ	Max	Units
Center Frequency		f_C			611.0		MHz
Insertion Loss @611 MHz					2.5	3.0	dB
	608 - 614 MHz				3.0	3.5	
Amplitude Ripple	608 - 614 MHz	p-p			0.5	1.0	dB
Group Delay Ripple	608 - 614 MHz	GDR			12	35	ns
	608 - 614 MHz				12	45	
Attenuation, reference to 0 dB							dB
DC to 593 MHz				40.0	45.0		
628 to 700 MHz				43.0	47.0		
700 to 1120 MHz				40.0	43.0		
1120 to 2000 MHz				35.0	40.0		
1120 to 2000 MHz				32.0	40.0		
2000 to 3000 MHz				30.0	34.0		
2000 to 3000 MHz				27.0	34.0		
Temperature Coefficient of Frequency					-36		Ppm/°C

Case Style	SMD 3.0 x 3.0 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	D1, YWWS
Nominal Impedance	50Ω

Electrical Connections

Connection	Terminals
Input	2
Output	5
Ground	All Others

Measurement Circuit



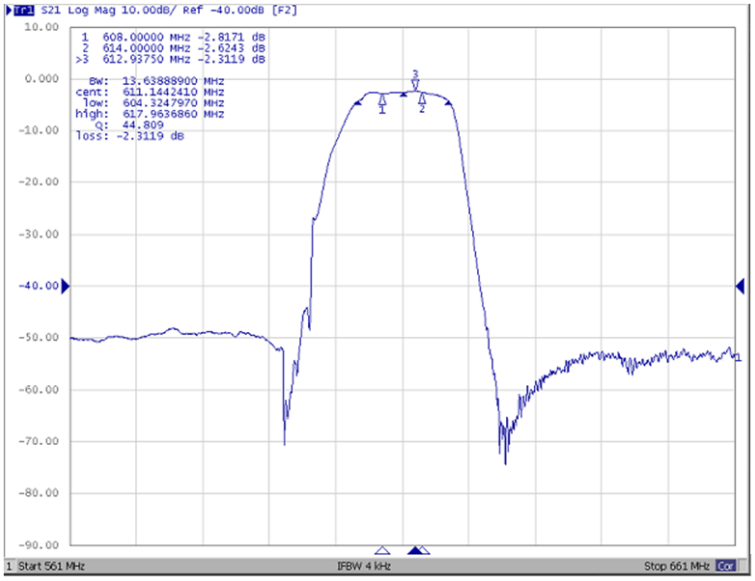
Note: Matching not needed for 50 ohm input and output impedances.

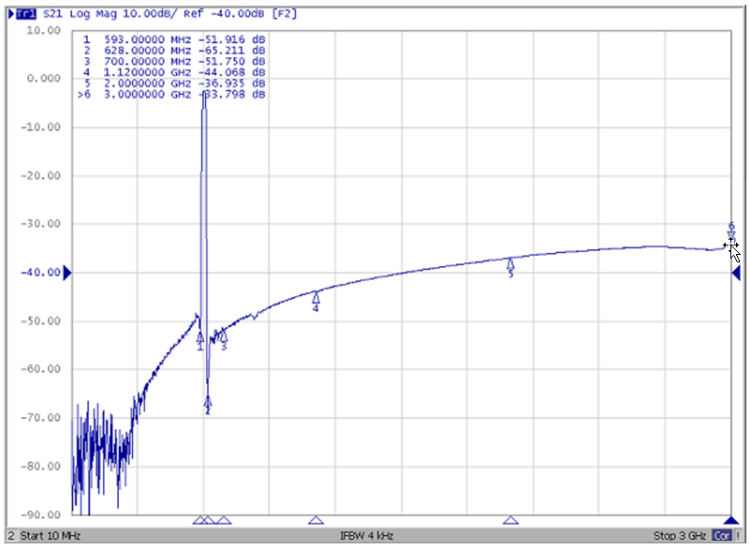
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

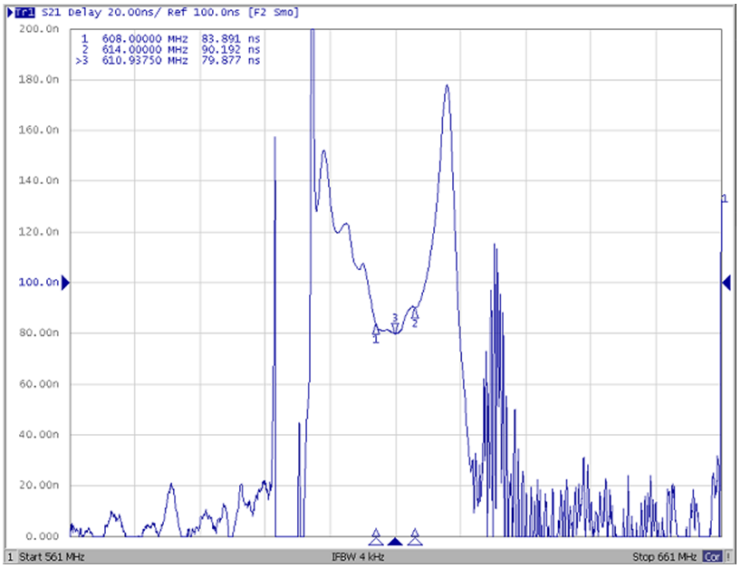
NOTES:

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

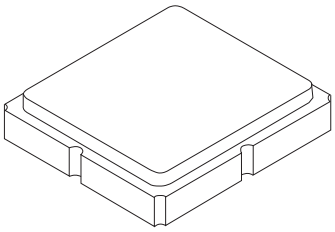
Frequency Characteristics:

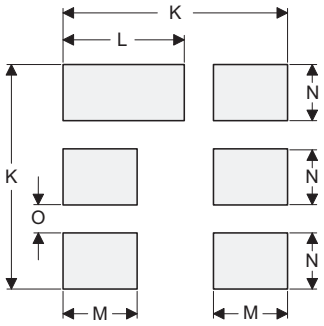






SM3030-6 Ceramic 6-Terminal Surface-Mount Case
3.0 X 3.0 mm Nominal Footprint





PCB Footprint Top View

Case and PCB Footprint Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.87	3.00	3.13	0.113	0.118	0.123
B	2.87	3.00	3.13	0.113	0.118	0.123
C	1.12	1.25	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038
H	1.37	1.50	1.63	0.054	0.059	0.064
I	0.47	0.60	0.73	0.019	0.024	0.029
J	1.17	1.30	1.43	0.046	0.051	0.056
K	-	3.20	-	-	0.126	-
L	-	1.70	-	-	0.067	-
M	-	1.05	-	-	0.041	-
N	-	0.81	-	-	0.032	-
O	-	0.38	-	-	0.015	-
P	0.15	0.30	0.45	0.005	0.011	0.017
Q	0.07	0.20	0.36	0.002	0.007	0.014
R	0.62	0.7	0.78	0.024	0.027	0.030

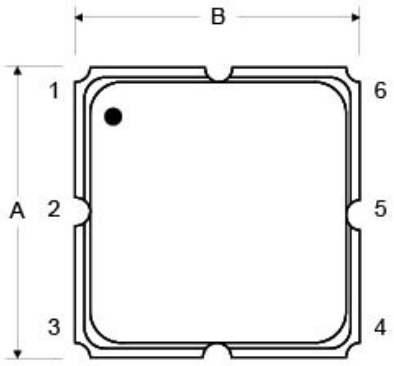
Case Materials

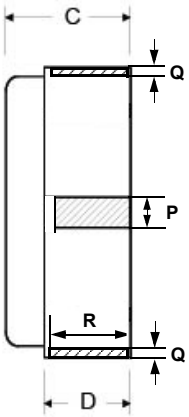
Materials	
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel
Lid Plating	2.0 to 3.0 µm Nickel
Body	Al_2O_3 Ceramic
Pb Free	

Electrical Connections

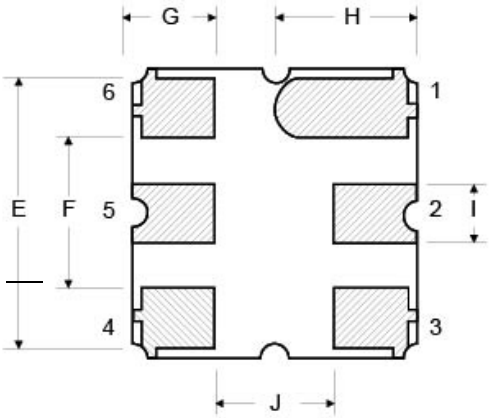
Connection	Terminals
Input	2
Output	5
Case Ground	All others

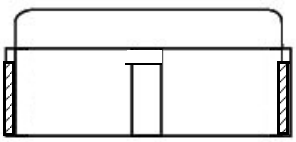
TOP VIEW



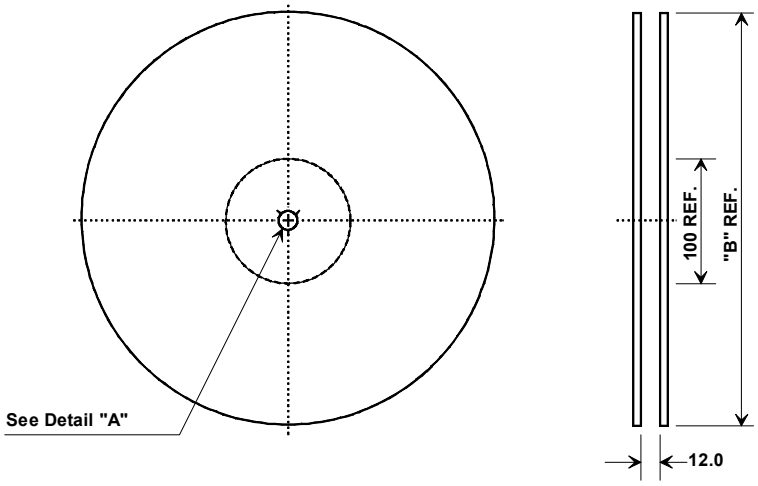


BOTTOM VIEW



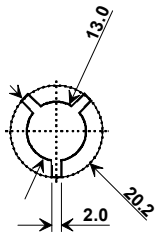


Tape and Reel Specifications



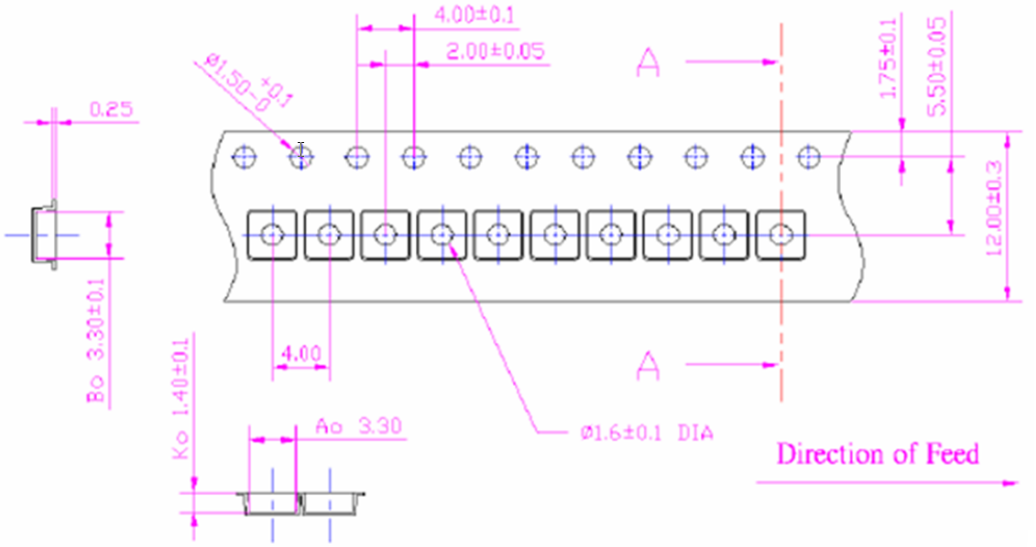
Tape and Reel Standard per ANSI/EIA-481

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



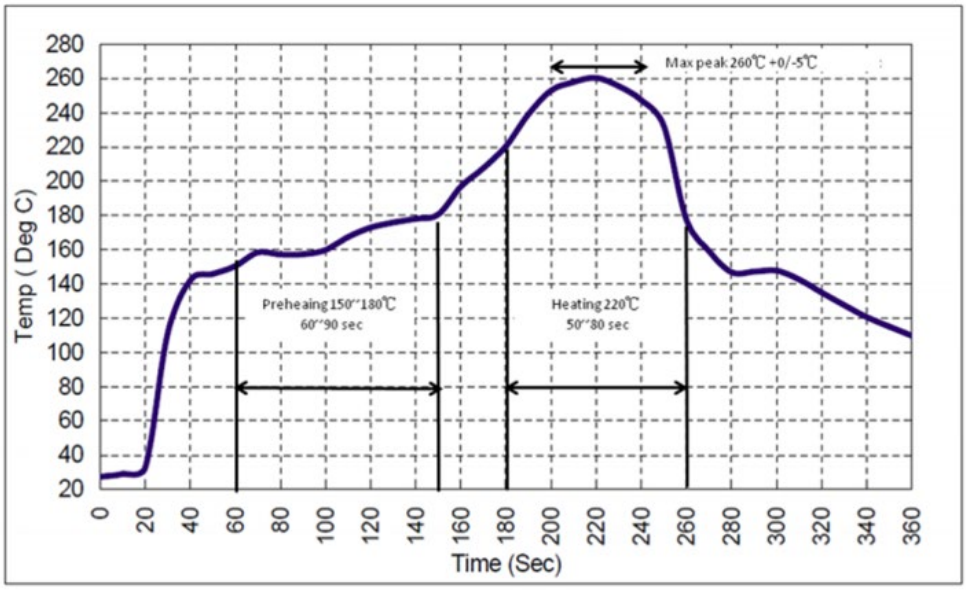
COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	3.30 mm
Bo	3.30 mm
Ko	1.40 mm
Pitch	4.00 mm
W	12.0 mm



Recommended Reflow Profile

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



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