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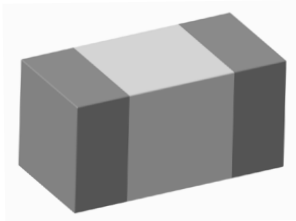
MQB
Thermal Conductor

TYPE:MQB

MQB Thermal Conductor

1 Features

- ◆ High thermal conductivity, low thermal resistance and low capacitance .
- ◆ AlN material used, have excellent thermal conductivity and high Reliability
- ◆ Directing heat to thermal ground panel, heat sinker or any other heat dissipation position to control component's temperature and improve circuit reliability.
- ◆ The inherent low capacitance makes the devices virtually transparent at RF/MW frequencies.
- ◆ The devices provide additional protection to adjacent components from hot spot thermal loads.
- ◆ The devices offer cost effective thermal management solution.
- ◆ The case sizes are in accordance with EIA standard, and custom configuration is available.



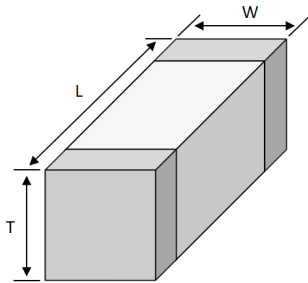
2 Applications

GaN Power Amplifier, High Frequency Power Amplifier, Filter, Synthesizer, Industry Computer, Switch Mode Power Supply, PIN/Laser Diode.
Functional Application: Between Active Device and Adjacent Ground Plane, Specific Contact Pad to Case, Contact Pad to Contact Pad, Direct Component Contact to Via Pad or Trace, Edges of Full Metalized.

3 How to order

MQB	0603	B	W	N	C
Type	Case size code	Thickness code	Termination	Termination materials	Packing
MQB	EIA	A:0.52±0.10 B:0.65±0.10 C:1.05±0.10 D:1.55±0.10	Edge Wrap	N: Silve/ Nickel/Tin TN: Silver/Copper/Tin	C: Reel B: Bag

Drawing



Unit: mm

Case size code	Length(T)	Width (W)	Thickness (T)	Thickness code
0302	0.81 ± 0.20	0.65 ± 0.20	0.52 ± 0.10	A
0402	1.06 ± 0.20	0.65 ± 0.20	0.52 ± 0.10	A
0505	1.31 ± 0.20	1.41 ± 0.20	0.65 ± 0.10	B
0603	1.56 ± 0.20	0.90 ± 0.20	0.65 ± 0.10	B
0805	2.07 ± 0.25	1.41 ± 0.25	1.05 ± 0.10	C
1005	2.58 ± 0.25	1.41 ± 0.25	1.05 ± 0.10	C
1020	2.58 ± 0.25	5.22 ± 0.50	1.05 ± 0.10	C
1111	2.83 ± 0.24	2.93 ± 0.25	1.05 ± 0.10	C
2010	4.99 ± 0.50	2.55 ± 0.25	1.55 ± 0.10	D
2525	6.14 ± 0.50	6.49 ± 0.50	1.55 ± 0.10	D
3725	9.44 ± 0.50	6.37 ± 0.50	1.55 ± 0.10	D
3737	9.31 ± 0.50	9.67 ± 0.50	1.55 ± 0.10	D

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4 Thermal Resistance

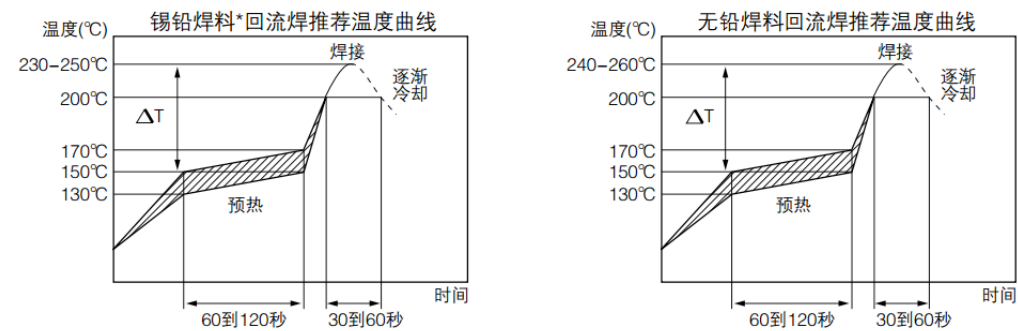
Case size code	Thermal Resistance (°C /W)	Case size code	Thermal Resistance (°C /W)
0302	18	1020	3
0402	23	1111	6
0505	10	2010	8
0603	19	2525	4
0805	10	3725	6
1005	12	3737	4

5 Attachment

- 1) Correct assembly method should be used;
- 2) Re-soldering after dismounting is strictly prohibited.

6 Recommend Soldering

Best soldering method is reflow. See Gragh 1 for recommended soldering profile for reference only.
Flux should be applied when manual soldering.



* 注：锡铅焊料指 Sn-37Pb 焊料

Solder Profile

7 Storage

Capacitors must be stored in the warehouse with the ambient temperature From -10°C to 40°C, relative humidity below 80%, and free of acid, alkaline or detrimental gas.
Capacitors must be in vacuum packing or in the protection of Nitrogen after unpacking.
The max. storage period is 18 months.