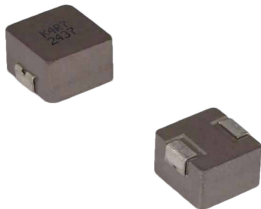


SMD Low Profile High Current Molded Inductor

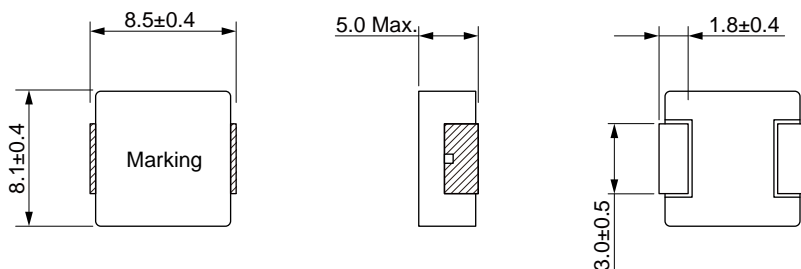
Size 8050



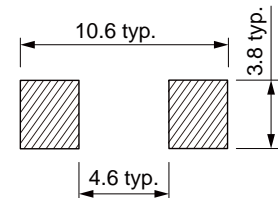
- Low loss realized with low DCR.
- Ultra low buzz noise, due to composite construction.
- 100% Lead(Pb)-Free and RoHS compliant.
- High performance (Isat) realized by metal dust core.
- AEC-Q200 qualified.
- Operating temperature: -55 to +155 °C (including self-temperature rise)
- Quantity: 1000PCS

- Headlamps, tail lamps and interior lighting
- HVAC
- Doors, window lift and seat control
- Audio subsystem
- Digital instrument cluster
- In-Vehicle Infotainment and navigation

Dimensions: [mm]



Land Pattern: [mm]



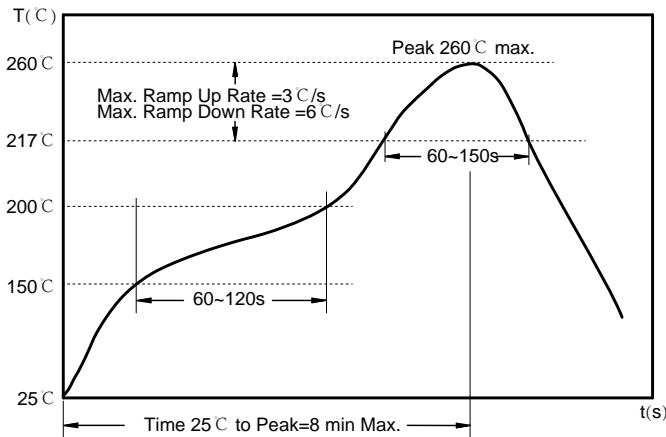
Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDA8050-1R0M	1.00	±20%	15.5	14.0	22.0	19.0	4.00	4.80
MDA8050-2R2M	2.20	±20%	14.5	13.0	18.0	15.5	6.50	7.80
MDA8050-3R3M	3.30	±20%	13.5	12.5	16.3	14.0	9.50	12.0
MDA8050-4R7M	4.70	±20%	11.0	9.00	15.0	13.7	20.5	25.0
MDA8050-5R6M	5.60	±20%	8.50	7.90	15.0	13.0	18.0	22.0
MDA8050-100M	10.0	±20%	7.80	6.80	9.00	7.70	29.0	35.0
MDA8050-150M	15.0	±20%	6.00	5.50	7.80	6.70	44.0	52.8
MDA8050-220M	22.0	±20%	5.50	5.00	7.20	6.20	56.0	67.0
MDA8050-470M	47.0	±20%	3.50	3.00	5.20	4.50	122	135

Saturation Current will cause L to drop approximately 35%

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T = 40^\circ\text{C}$

Soldering Reflow:



Preheat condition: 150 ~200 °C / 60~120 sec.

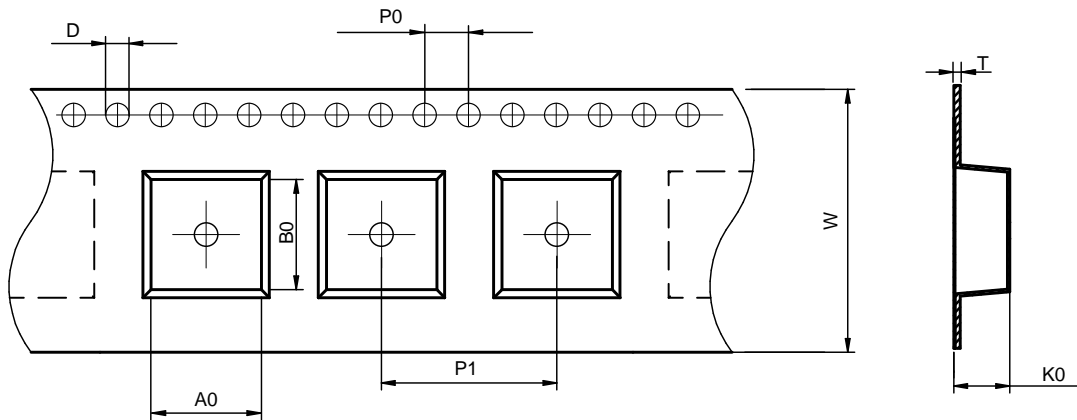
Allowed time above 217 °C : 60~150 sec.

Max temperature: 260 °C .

Allowed Reflow time: 2x max.

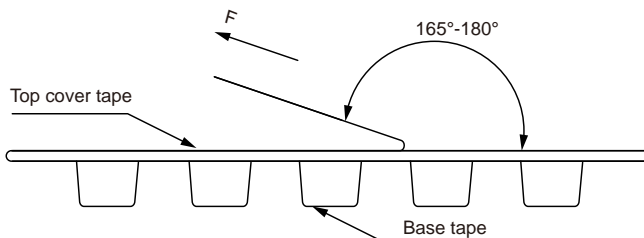
Packaging Information:

Tape Dimension :



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	T (mm)
MDA8050	8.4 typ	9.6 typ	1.5± 0.1	4.0± 0.1	12.0± 0.1	16.0± 0.2	5.3 typ	0.35 typ

Peel force of top cover tape:



The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	K+Printing Inductance+period)
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Reel Dimension: [mm]



Packaging Quantity: