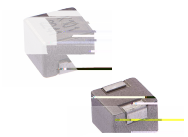
MDA Series

SMD Low Profile High Current Molded Inductor

Size 7050



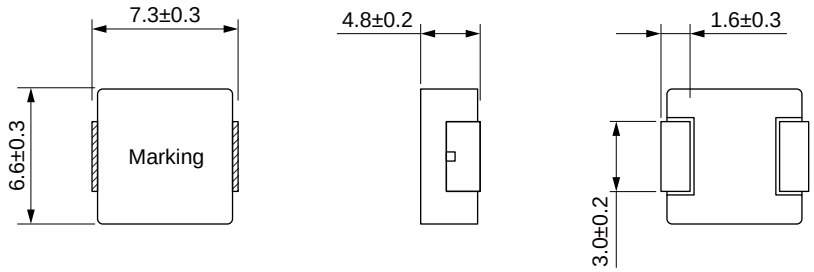
FEATURES

- Shielded construc on
- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
- Ultra low buzz noise, due to composite construc on.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified
- Opera ng temperature: -55 to +155 °C (including self-temperature rise)
- Quan ty: 800PCS

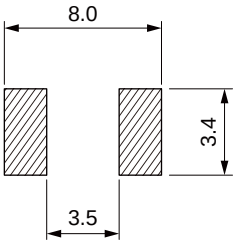
APPLICATION

- Headlamps, tail lamps and interior ligh ng
- HVAC
- Doors, window li and seat control
- Audio subsystem
- Digital instrument cluster
- In-Vehicle Infotainment and naviga on

Dimensions: [mm]



Land Pattern: [mm]

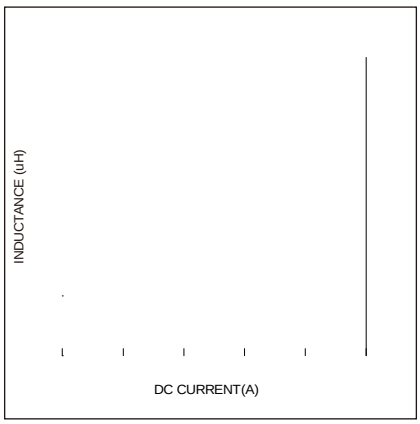


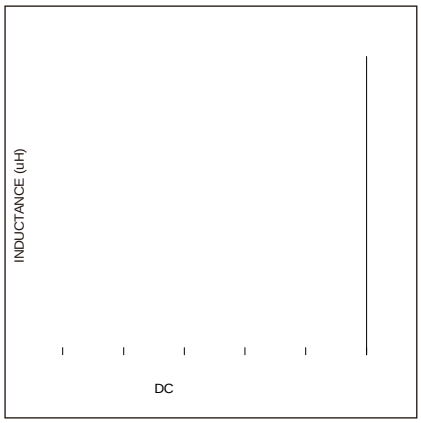
Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Satura on Current Typ. (A)	Satura on Current Max. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDA7050-1R0M	1.00	±20%	17.0	15.0	16.0	13.0	5.60	6.20
MDA7050-1R5M	1.50	±20%	15.0	13.0	13.0	10.5	6.60	7.30
MDA7050-2R2M	2.20	±20%	14.0	12.0	10.0	8.5	10.0	11.5
MDA7050-3R3M	3.30	±20%	13.0	11.0	9.5	8.0	14.0	16.2
MDA7050-4R7M	4.70	±20%	11.0	9.5	8.8	7.5	20.8	24.0
MDA7050-5R6M	5.60	±20%	10.0	8.5	8.0	7.2	28.0	33.0
MDA7050-6R8M	6.80	±20%	9.0	8.0	7.6	7.0	30.0	36.0
MDA7050-8R2M	8.20	±20%	7.5	6.5	6.5	6.0	38.5	45.0
MDA7050-100M	10.0	±20%	7.0	6.0	6.0	5.7	44.0	53.0
MDA7050-150M	15.0	±20%	5.0	4.0	4.0	3.2	73.0	85.0

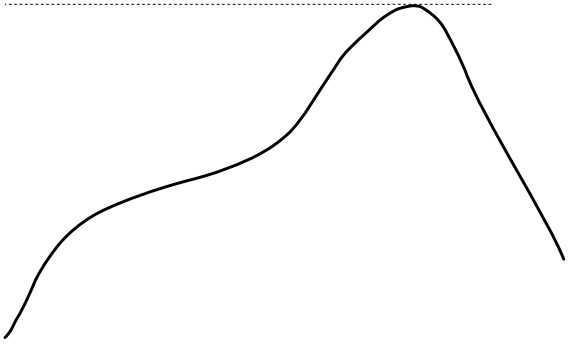
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Satura on Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDA7050-220M						
MDA7050-330M						
MDA7050-470M						

Typical Electrical Characteristics:




INDUCTANCE (uH)
DC

Soldering Reflow:



Preheat condition: 150 ~200℃/ 60~120 sec.

Allowed time above 217℃: 60~90 sec.

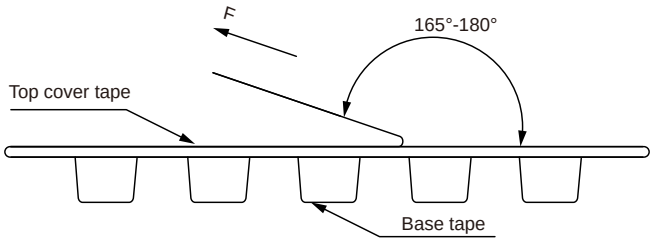
Max temperature: 260℃.

Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension:

Peel force of top cover tape:

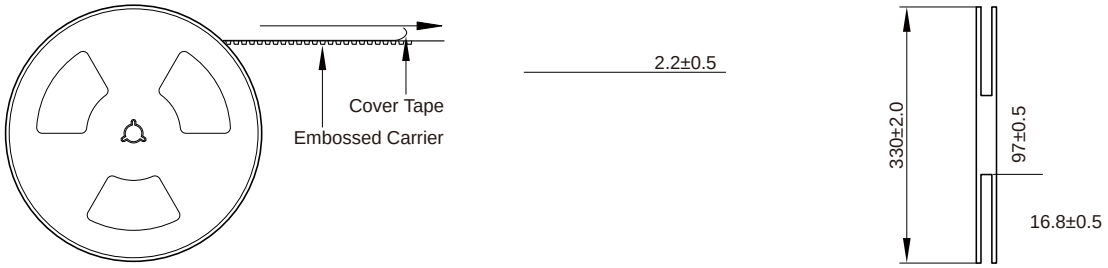


The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	K+Printing (Inductance+period)

Reel Dimension：[mm]



Packaging Quantity:



800 Pcs/Reel

2 Reel /Inner box(1600 Pcs)

3 Inner box/Carton box(4.8K Pcs)

Cautions and Warnings:

Storage Conditions：

Operation Instructions: