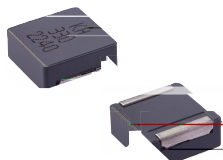


## MDCA Series

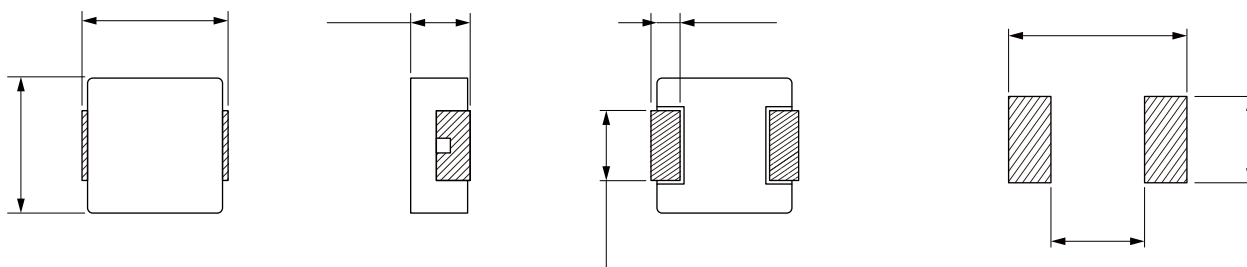


### FEATURES

- Shielded construction.
- Capable of corresponding high frequency.
- Low loss realized with low DCR.
- High performance (Isat) realized by Carbonyl Powder.
- Ultra low buzz noise, due to composite construction.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified
- Operating temperature: -55 to +125 °C(including self-temperature rise)
- Quantity: 200PCS

### APPLICATION

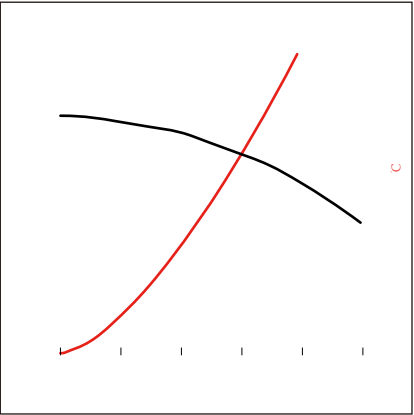
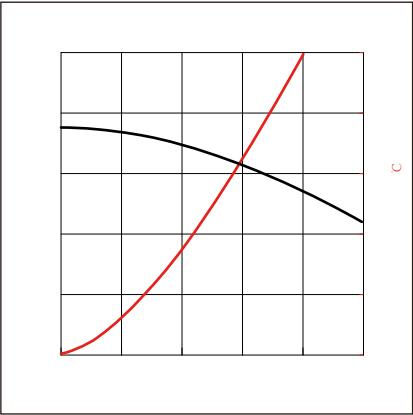
- Headlamps, tail lamps and interior lighting
- HVAC
- Doors, window lift and seat control
- Audio subsystem
- Digital instrument cluster
- In-Vehicle Infotainment and navigation



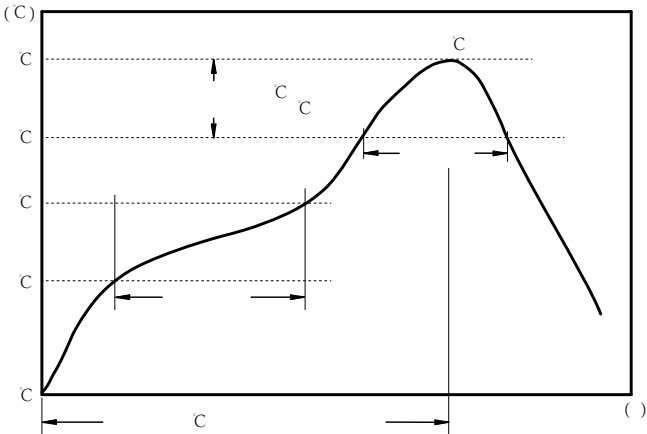
| Part No       | Inductance<br>@ 100KHz/1V<br>( $\mu$ H) | Tolerance  | Temperature<br>Rise Current<br>Typ.<br>(A) | Saturation<br>Current<br>Typ.<br>(A) | DC<br>Resistance<br>Typ.<br>(m $\Omega$ ) | DC<br>Resistance<br>Max.<br>(m $\Omega$ ) |
|---------------|-----------------------------------------|------------|--------------------------------------------|--------------------------------------|-------------------------------------------|-------------------------------------------|
| MDCA1870-R45M | 0.45                                    | $\pm 20\%$ | 62.0                                       | 125                                  | 0.80                                      | 0.96                                      |
| MDCA1870-R47M | 0.47                                    | $\pm 20\%$ | 62.0                                       | 123                                  | 0.95                                      | 1.03                                      |
| MDCA1870-1R0M | 1.00                                    | $\pm 20\%$ | 52.0                                       | 70                                   | 1.60                                      | 2.00                                      |
| MDCA1870-1R5M | 1.50                                    | $\pm 20\%$ | 47.0                                       | 65                                   | 2.00                                      | 2.50                                      |
| MDCA1870-2R2M | 2.20                                    | $\pm 20\%$ | 43.5                                       | 62                                   | 2.40                                      | 2.70                                      |
| MDCA1870-3R3M | 3.30                                    | $\pm 20\%$ | 28.0                                       | 54                                   | 3.50                                      | 3.90                                      |
| MDCA1870-4R7M | 4.70                                    | $\pm 20\%$ | 25.0                                       | 50                                   | 4.80                                      | 5.50                                      |
| MDCA1870-5R6M | 5.60                                    | $\pm 20\%$ | 21.0                                       | 45                                   | 5.80                                      | 7.05                                      |
| MDCA1870-6R8M | 6.80                                    | $\pm 20\%$ | 19.0                                       | 39                                   | 8.40                                      | 9.20                                      |
| MDCA1870-8R2M | 8.20                                    | $\pm 20\%$ | 18.0                                       | 31                                   | 9.60                                      | 10.8                                      |
| MDCA1870-100M | 10.0                                    | $\pm 20\%$ | 16.5                                       | 29                                   | 11.8                                      | 13.0                                      |
| MDCA1870-150M | 15.0                                    | $\pm 20\%$ | 12.5                                       | 27                                   | 17.8                                      | 20.5                                      |
| MDCA1870-220M | 22.0                                    | $\pm 20\%$ | 12.0                                       | 23                                   | 25.1                                      | 26.5                                      |
| MDCA1870-330M | 33.0                                    | $\pm 20\%$ | 10.7                                       | 20                                   | 38.0                                      | 44.0                                      |

| Part No       | Inductance<br>@ 100KHz/1V<br>( $\mu$ H) | Tolerance  |     |    | DC<br>Resistance<br>Typ.<br>(m $\Omega$ ) | DC<br>Resistance<br>Max.<br>(m $\Omega$ ) |
|---------------|-----------------------------------------|------------|-----|----|-------------------------------------------|-------------------------------------------|
| MDCA1870-470M | 47.0                                    | $\pm 20\%$ | 8.7 | 16 | 48.0                                      | 55.0                                      |
| MDCA1870-560M | 56.0                                    | $\pm 20\%$ | 7.8 | 15 | 54.0                                      | 62.0                                      |
| MDCA1870-680M | 68.0                                    | $\pm 20\%$ | 7.0 | 13 | 68.0                                      | 80.0                                      |
| MDCA1870-820M | 82.0                                    | $\pm 20\%$ | 5.7 | 12 | 87.0                                      | 100                                       |
| MDCA1870-101M | 100                                     | $\pm 20\%$ | 5.3 | 12 | 102                                       | 118                                       |

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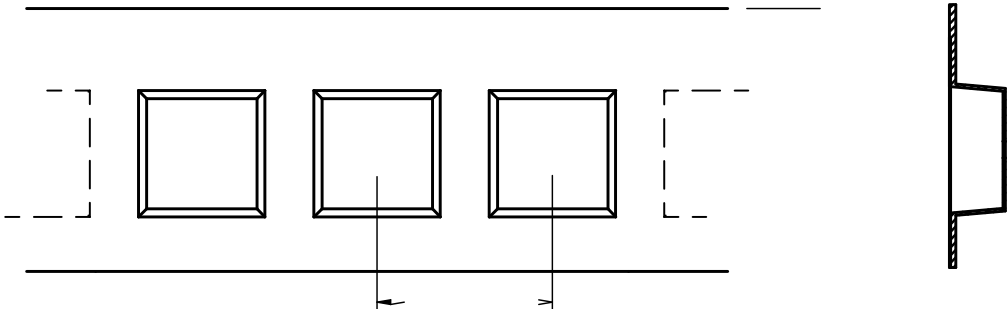




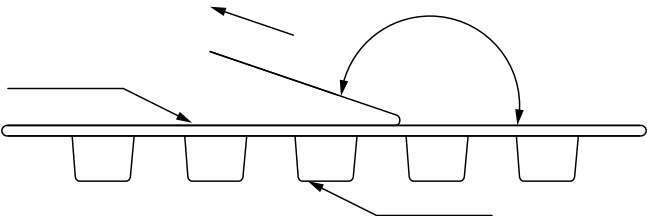


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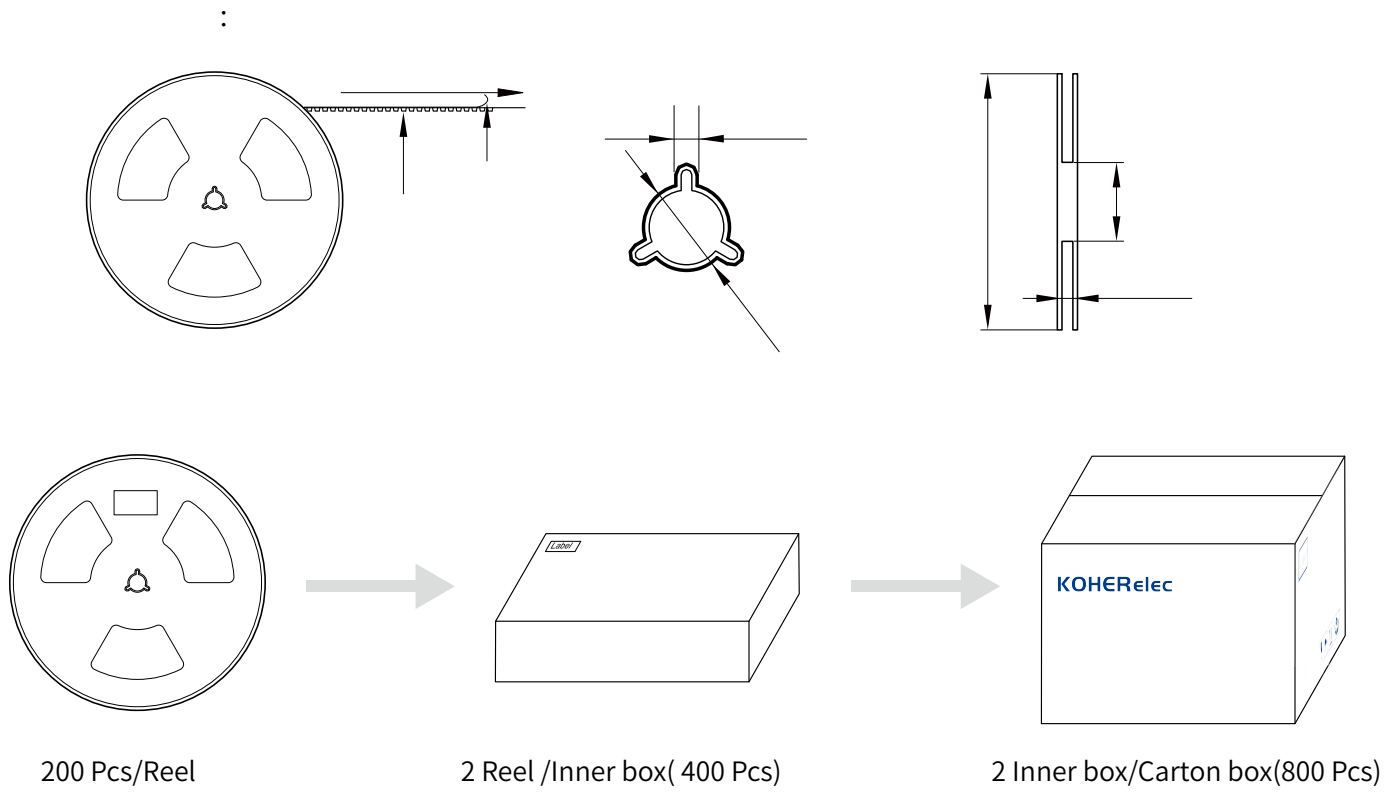


| MDCA1870 | 17.5±0.1 | 18.1±0.1 | 1.5±0.1 | 4.0±0.1 | 24.0±0.1 | 32.0±0.3 | 7.3±0.1 | 1.75±0.1 | 0.50±0.05 |
|----------|----------|----------|---------|---------|----------|----------|---------|----------|-----------|



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

|         |                                 |
|---------|---------------------------------|
| Marking | KH+Printing (Inductance+period) |
|---------|---------------------------------|



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