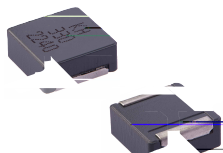


## MDCA Series

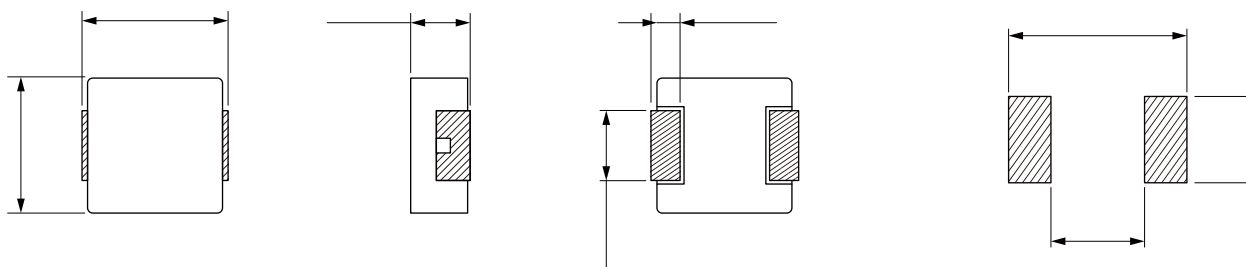


### FEATURES

- 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

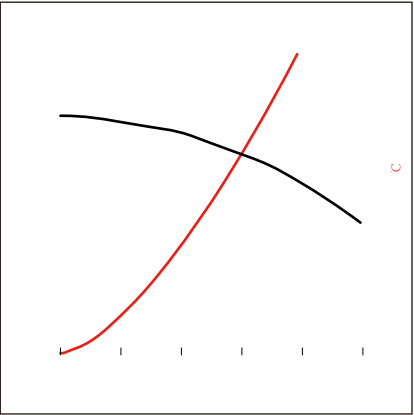
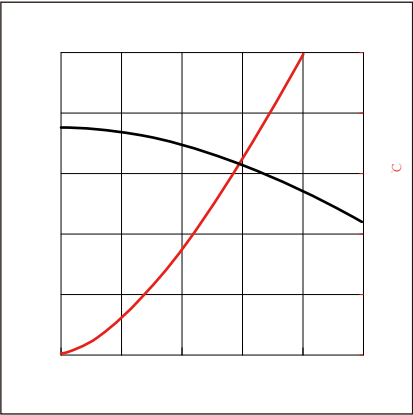
- Headlamps, tail lamps and interior lighting
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- Doors, window lift and seat control
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- In-Vehicle Infotainment and navigation



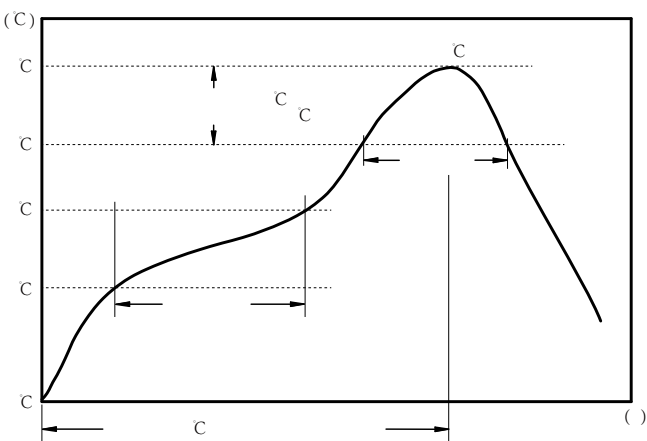
| Part No       | Inductance<br>@ 100KHz/1V<br>(μH) | Tolerance | Temperature<br>Rise Current<br>Typ.<br>(A) | Saturation<br>Current<br>Typ.<br>(A) | DC<br>Resistance<br>Typ.<br>(mΩ) | DC<br>Resistance<br>Max.<br>(mΩ) |
|---------------|-----------------------------------|-----------|--------------------------------------------|--------------------------------------|----------------------------------|----------------------------------|
| MDCA1870-R45M | 0.45                              |           | 62.0                                       | 125                                  | 0.80                             | 0.96                             |
| MDCA1870-R47M | 0.47                              |           | 62.0                                       |                                      | 0.95                             | 1.03                             |
| MDCA1870-1R0M | 1.00                              |           | 52.0                                       |                                      | 1.60                             | 2.00                             |
| MDCA1870-1R5M | 1.50                              |           | 47.0                                       | 65                                   | 2.00                             | 2.50                             |
| MDCA1870-2R2M | 2.20                              |           | 43.5                                       |                                      | 2.40                             | 2.70                             |
| MDCA1870-3R3M | 3.30                              |           | 28.0                                       | 54                                   | 3.50                             | 3.90                             |
| MDCA1870-4R7M | 4.70                              |           | 25.0                                       | 50                                   | 4.80                             | 5.50                             |
| MDCA1870-5R6M | 5.60                              |           | 21.0                                       | 45                                   | 5.80                             | 7.05                             |
| MDCA1870-6R8M | 6.80                              |           | 19.0                                       |                                      | 8.40                             | 9.20                             |
| MDCA1870-8R2M | 8.20                              |           | 18.0                                       |                                      | 9.60                             | 10.8                             |
| MDCA1870-100M | 10.0                              |           | 16.5                                       |                                      | 11.8                             | 13.0                             |
| MDCA1870-150M | 15.0                              |           | 12.5                                       |                                      | 17.8                             | 20.5                             |
| MDCA1870-220M | 22.0                              |           | 12.0                                       |                                      | 25.1                             | 26.5                             |
| MDCA1870-330M | 33.0                              |           | 10.7                                       |                                      | 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                                    |           | 8.7 |    | 48.0                                      | 55.0                                      |
| MDCA1870-560M | 56.0                                    |           | 7.8 | 15 | 54.0                                      | 62.0                                      |
| MDCA1870-680M | 68.0                                    |           | 7.0 |    | 68.0                                      | 80.0                                      |
| MDCA1870-820M | 82.0                                    |           | 5.7 |    | 87.0                                      |                                           |
| MDCA1870-101M |                                         |           | 5.3 |    |                                           | 118                                       |

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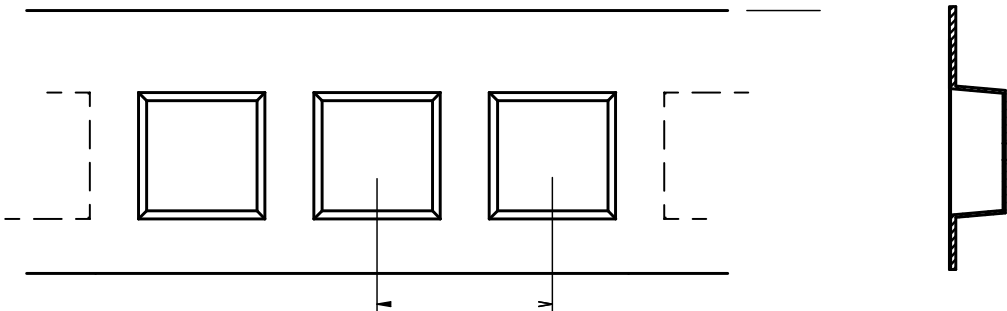




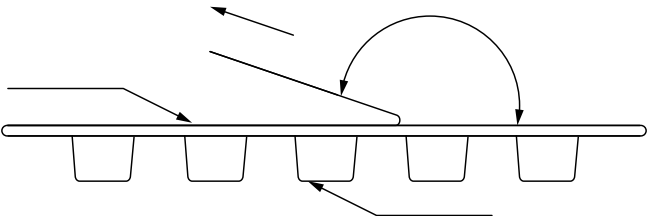


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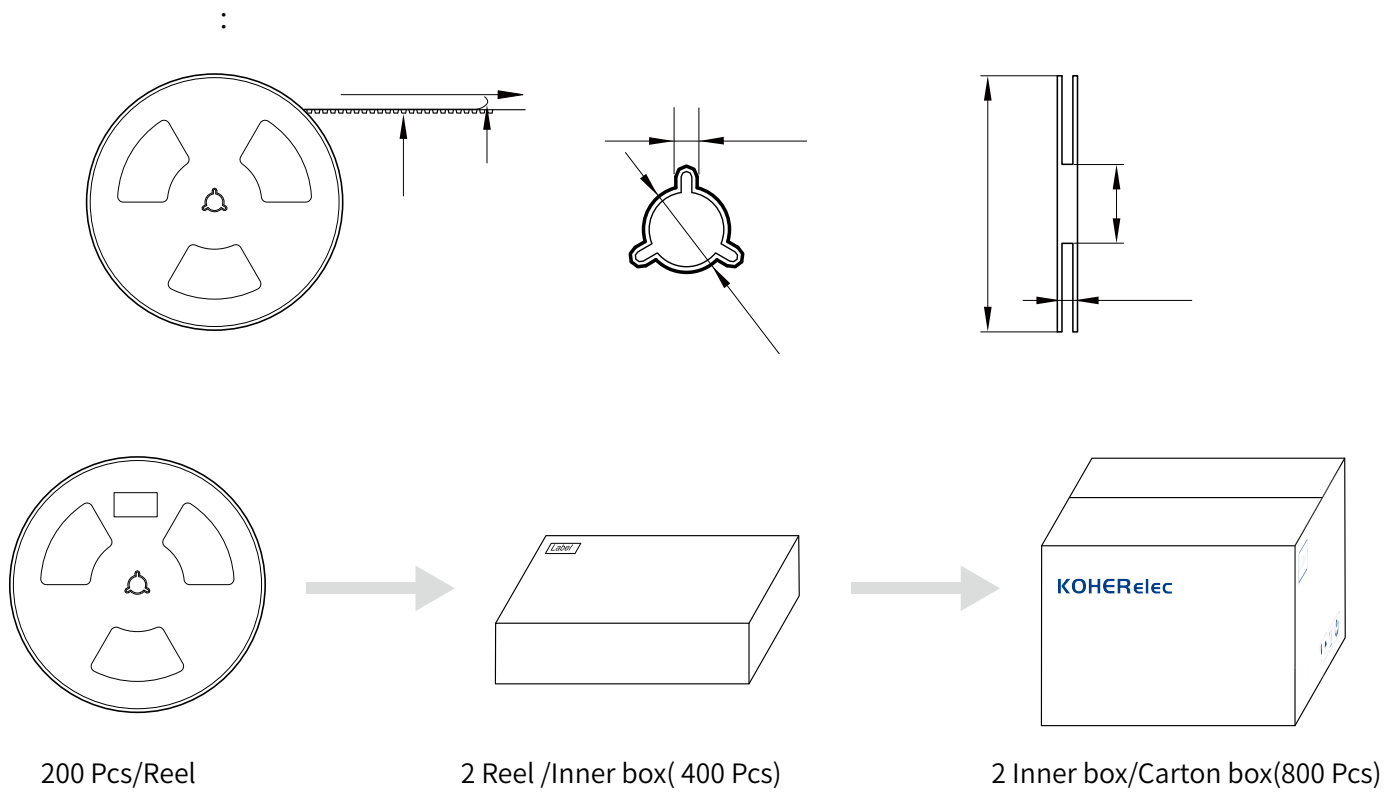


| MDCA1870 | 17.5±0.1 | 18.1±0.1 | 1.5±0.1 | 4.0±0.1 | 24.0±0.1 | 32.0±0.3 | 7.3±0.1 | 1.75±0.1 | 0.50±0.05 |
|----------|----------|----------|---------|---------|----------|----------|---------|----------|-----------|



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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