

# SMD Power Inductor

## CDRH73



### Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 7.5 x 7.5 x 3.4mm Max.
- Product weight: 0.63g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance



### Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self-temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak

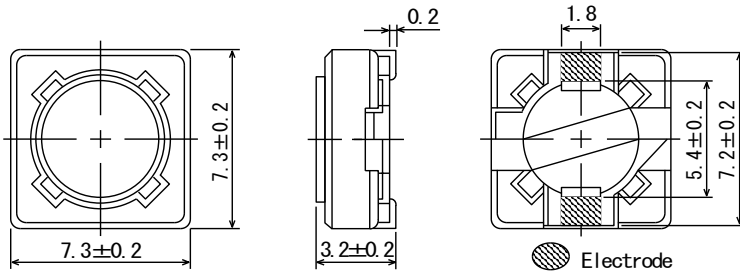
### Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 1000pcs per reel

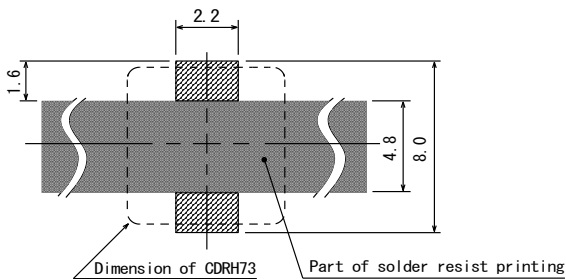
### Applications

- Ideally used in Notebook PC, LCD TV, DVD, game machine, STB, projector etc. as DC-DC converter inductors

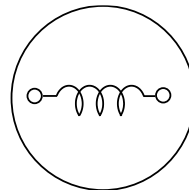
### Dimension - [mm]



### Recommended Land pattern - [mm]



### Wire Connection



No vias and traces in the restricted area underneath the coil

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### Electrical Characteristics

| Part No.         | Stamp | Inductance<br>( $\mu\text{H}$ )<br>[ within ] ※1 | D.C.R.( $\Omega$ )<br>Max. (Typ.)<br>(at 20°C) | Rated Current<br>(A) ※2 |
|------------------|-------|--|--|-------------------------|
| CDRH73NP-100MC-B | 100   | 10 $\pm$ 20%                                     | 72m (55m)                                      | 1.68                    |
| CDRH73NP-120MC-B | 120   | 12 $\pm$ 20%                                     | 98m (75m)                                      | 1.52                    |
| CDRH73NP-150MC-B | 150   | 15 $\pm$ 20%                                     | 0.13 (96m)                                     | 1.33                    |
| CDRH73NP-180MC-B | 180   | 18 $\pm$ 20%                                     | 0.14 (0.11)                                    | 1.20                    |
| CDRH73NP-220MC-B | 220   | 22 $\pm$ 20%                                     | 0.19 (0.15)                                    | 1.07                    |
| CDRH73NP-270MC-B | 270   | 27 $\pm$ 20%                                     | 0.21 (0.16)                                    | 0.96                    |
| CDRH73NP-330MC-B | 330   | 33 $\pm$ 20%                                     | 0.24 (0.18)                                    | 0.91                    |
| CDRH73NP-390MC-B | 390   | 39 $\pm$ 20%                                     | 0.32 (0.25)                                    | 0.77                    |
| CDRH73NP-470MC-B | 470   | 47 $\pm$ 20%                                     | 0.36 (0.28)                                    | 0.76                    |
| CDRH73NP-560MC-B | 560   | 56 $\pm$ 20%                                     | 0.47 (0.36)                                    | 0.68                    |
| CDRH73NP-680MC-B | 680   | 68 $\pm$ 20%                                     | 0.52 (0.40)                                    | 0.61                    |
| CDRH73NP-820MC-B | 820   | 82 $\pm$ 20%                                     | 0.69 (0.53)                                    | 0.57                    |
| CDRH73NP-101MC-B | 101   | 100 $\pm$ 20%                                    | 0.79 (0.61)                                    | 0.50                    |
| CDRH73NP-121MC-B | 121   | 120 $\pm$ 20%                                    | 0.89 (0.69)                                    | 0.49                    |
| CDRH73NP-151MC-B | 151   | 150 $\pm$ 20%                                    | 1.27 (1.02)                                    | 0.43                    |
| CDRH73NP-181MC-B | 181   | 180 $\pm$ 20%                                    | 1.45 (1.16)                                    | 0.39                    |
| CDRH73NP-221MC-B | 221   | 220 $\pm$ 20%                                    | 1.65 (1.32)                                    | 0.35                    |
| CDRH73NP-271MC-B | 271   | 270 $\pm$ 20%                                    | 2.31 (1.85)                                    | 0.32                    |
| CDRH73NP-331MC-B | 331   | 330 $\pm$ 20%                                    | 2.62 (2.10)                                    | 0.28                    |
| CDRH73NP-391MC-B | 391   | 390 20%  | 2.94 (2.35)                                    | 0.26                    |
| CDRH73NP-471MC-B | 471   | 470 $\pm$ 20%                                    | 4.18 (3.35)                                    | 0.24                    |
| CDRH73NP-561MC-B | 561   | 560 $\pm$ 20%                                    | 4.67 (3.73)                                    | 0.22                    |
| CDRH73NP-681MC-B | 681   | 680 $\pm$ 20%                                    | 5.73 (4.58)                                    | 0.19                    |
| CDRH73NP-821MC-B | 821   | 820 $\pm$ 20%                                    | 6.54 (5.23)                                    | 0.18                    |
| CDRH73NP-102MC-B | 102   | 1000 $\pm$ 20%                                   | 9.44 (7.55)                                    | 0.16                    |

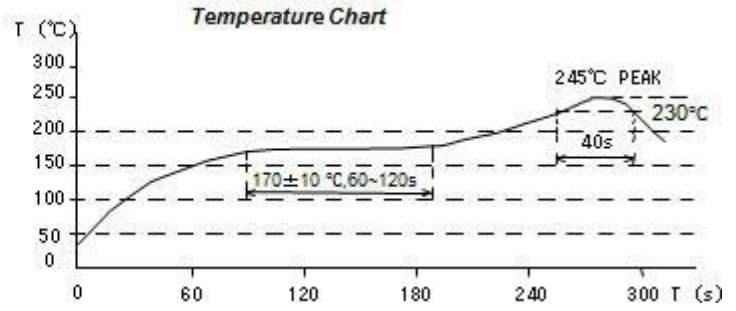
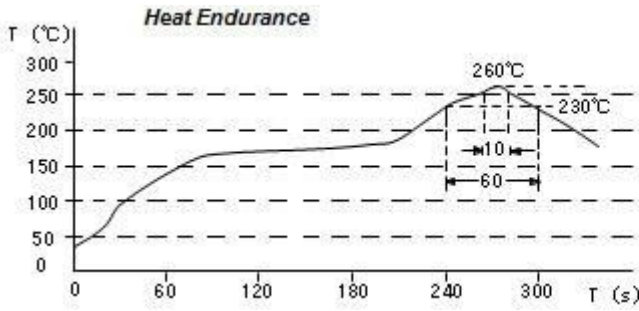
※1. Inductance measuring condition: at 1 kHz

※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

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## Solder Reflow Condition



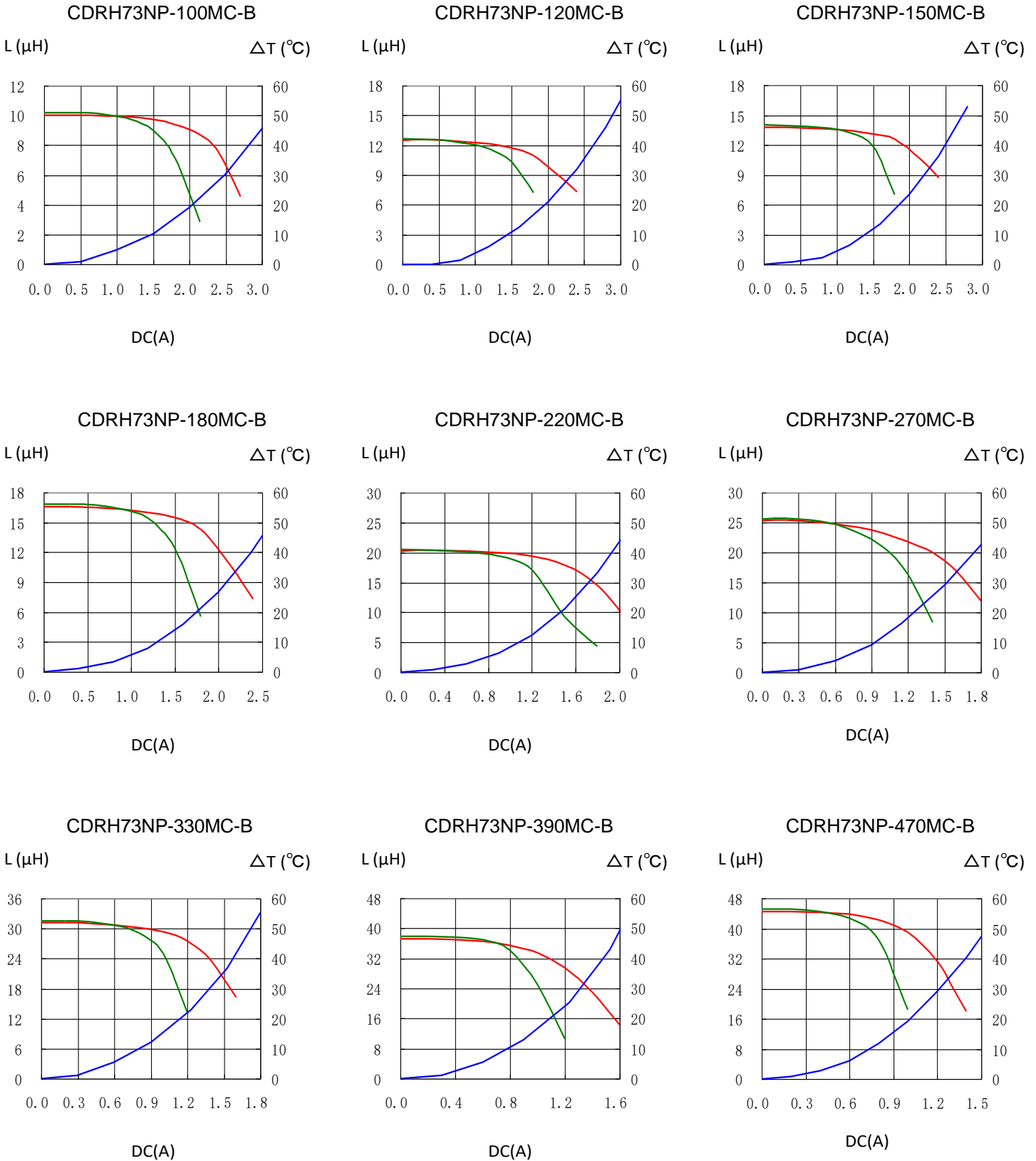
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### Saturation Current & Temperature Rise Graph

— L (20°C)    — L (100°C)    —  $\Delta T$



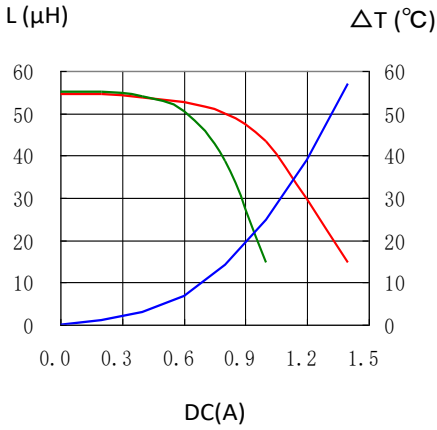
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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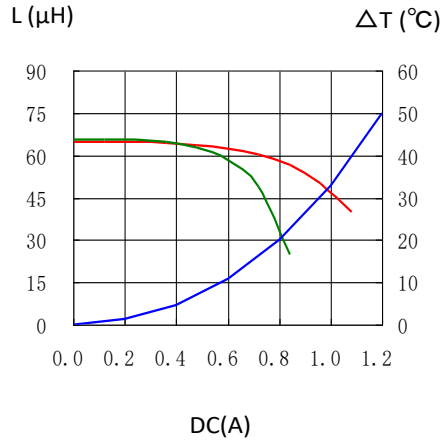
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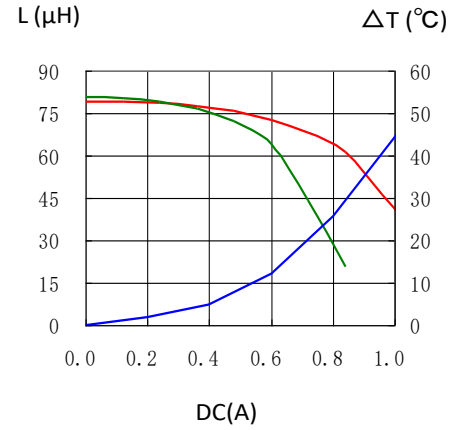
CDRH73NP-560MC-B



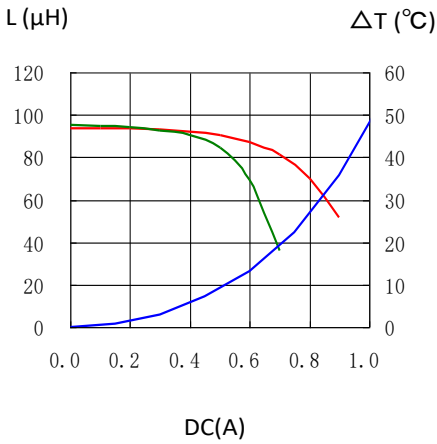
CDRH73NP-680MC-B



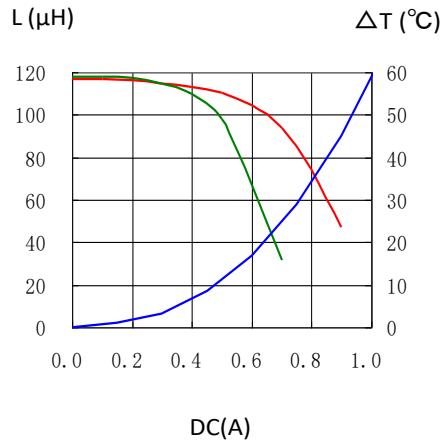
CDRH73NP-820MC-B



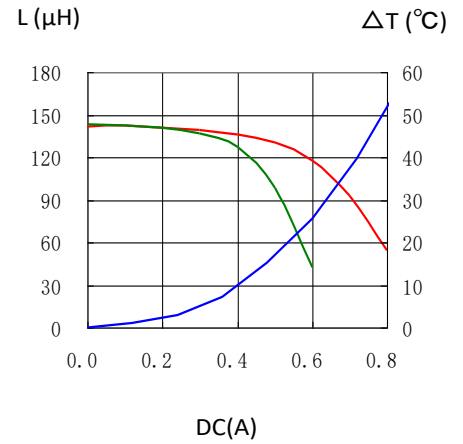
CDRH73NP-101MC-B



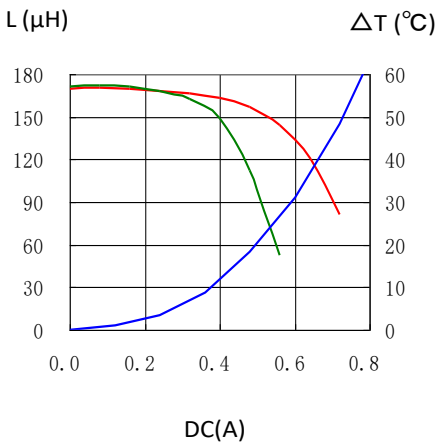
CDRH73NP-121MC-B



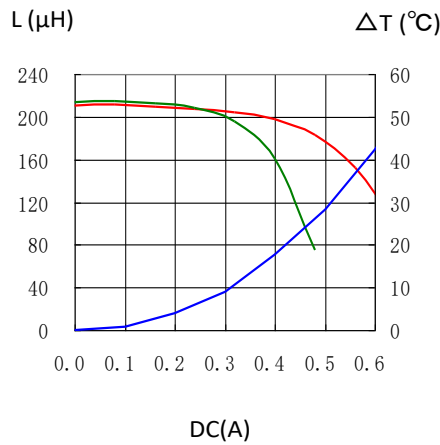
CDRH73NP-151MC-B



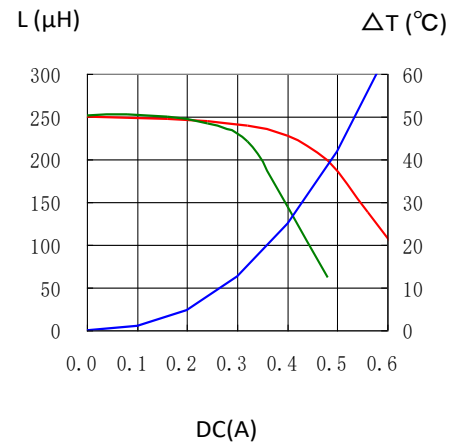
CDRH73NP-181MC-B



CDRH73NP-221MC-B



CDRH73NP-271MC-B

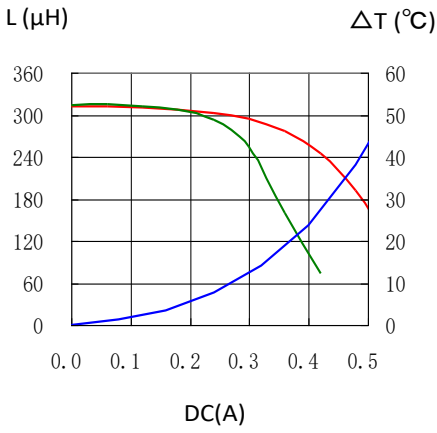


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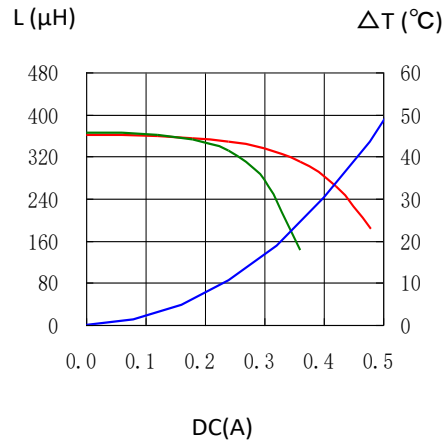
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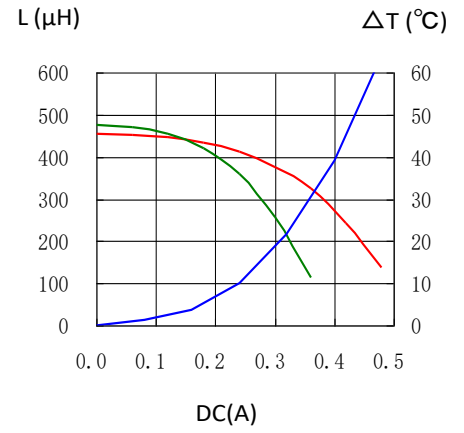
CDRH73NP-331MC-B



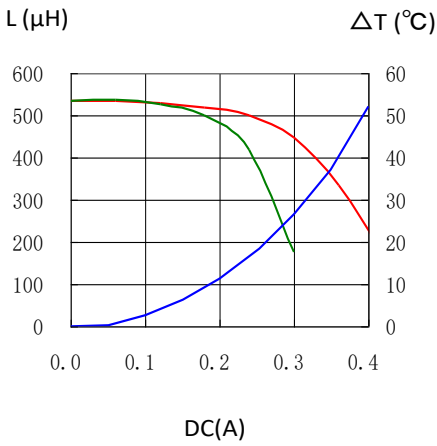
CDRH73NP-391MC-B



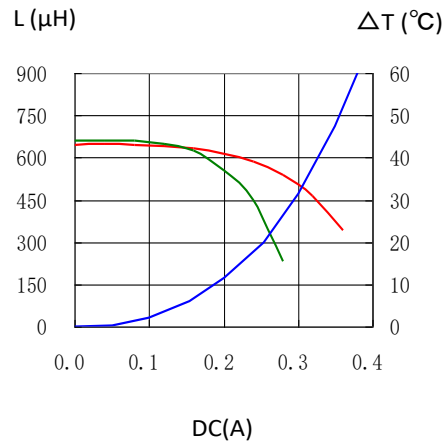
CDRH73NP-471MC-B



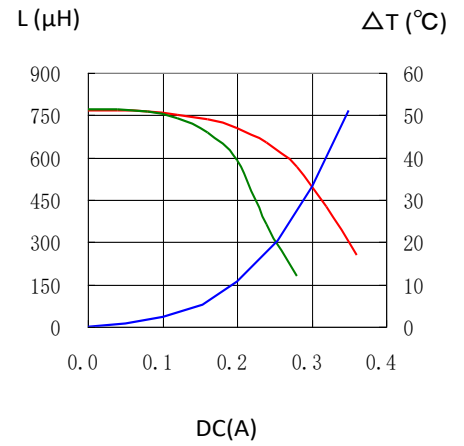
CDRH73NP-561MC-B



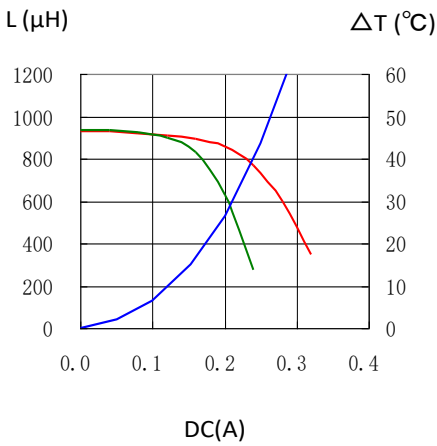
CDRH73NP-681MC-B



CDRH73NP-821MC-B



CDRH73NP-102MC-B



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