

# SMD Power Inductor CDMPIH60D48/T125



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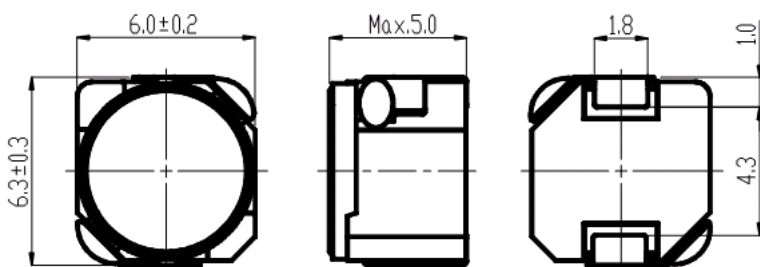
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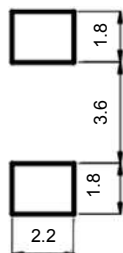
## Description

- Ferrite core construction.
- Magnetically shielded.
- Lower flux leakage.
- L × W × H: 6.6 × 6.2 × 5.0 mm Max.
- Product weight: 0.68g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Dimension - [mm]



## Land pattern - [mm]



## Environmental Data

- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

## Packaging

- Carrier tape and reel packaging

## Applications

- Ideally used in Car navigation, automobile's MPV equipment and D-Amp etc.

## Electrical Characteristics

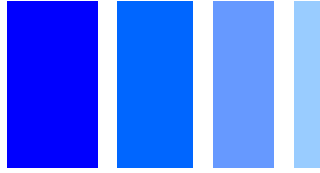
| Part No.                | Stamp | Inductance<br>( $\mu$ H)<br>[Within] ※1 | D.C.R. (m $\Omega$ )<br>[Max] (Typ.)<br>(at20°C) | Saturation Current<br>(A) ※2 |           | Temperature<br>Rise Current<br>(A) ※3 |
|-------------------------|-------|---|--|------------------------------|-----------|---------------------------------------|
|                         |       |   |  | (at20°C)                     | (at125°C) |                                       |
| CDMPIH60D48T125NP-3R9PC | 3R9   | 3.9±25%                                 | 33( 27)  | 4.1                          | 3.4       | 3.5                                   |
| CDMPIH60D48T125NP-6R2PC | 6R2   | 6.2±25%                                 | 41( 33)  | 3.2                          | 2.6       | 3.2                                   |
| CDMPIH60D48T125NP-100MC | 100   | 10±20%                                  | 58( 46)  | 2.5                          | 2.1       | 2.5                                   |
| CDMPIH60D48T125NP-150MC | 150   | 15±25%                                  | 89( 71)  | 2.1                          | 1.7       | 1.9                                   |
| CDMPIH60D48T125NP-220MC | 220   | 22±25%                                  | 140(112)   | 1.7                          | 1.4       | 1.5                                   |
| CDMPIH60D48T125NP-330MC | 330   | 33±25%                                  | 208(166)   | 1.4                          | 1.1       | 1.2                                   |
| CDMPIH60D48T125NP-470MC | 470   | 47±25%                                  | 255(204)   | 1.20                         | 0.95      | 1.15                                  |
| CDMPIH60D48T125NP-680MC | 680   | 68±25%                                  | 302(242)   | 0.95                         | 0.80      | 1.05                                  |
| CDMPIH60D48T125NP-101MC | 101   | 100±25%                                 | 460(368)   | 0.80                         | 0.65      | 0.85                                  |

※1. Inductance measuring condition : at 100kHz

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

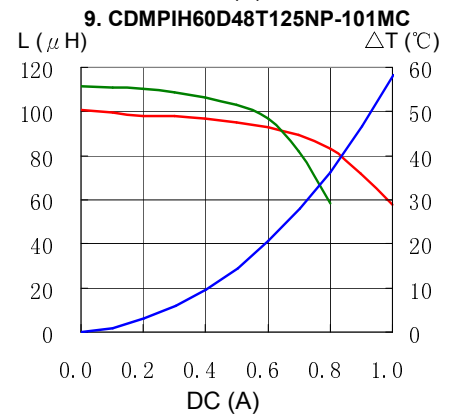
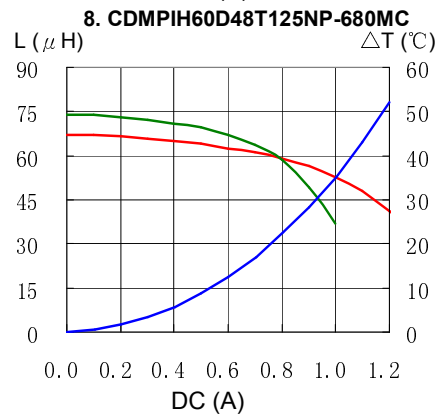
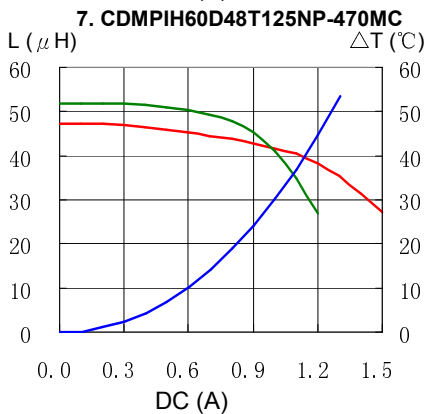
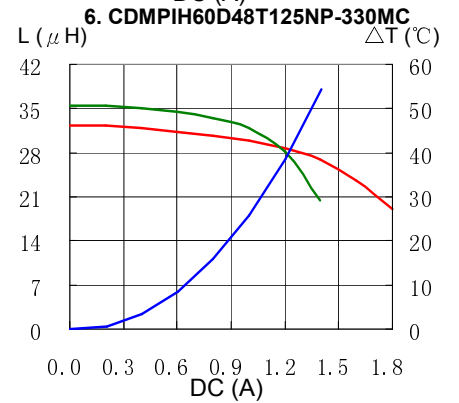
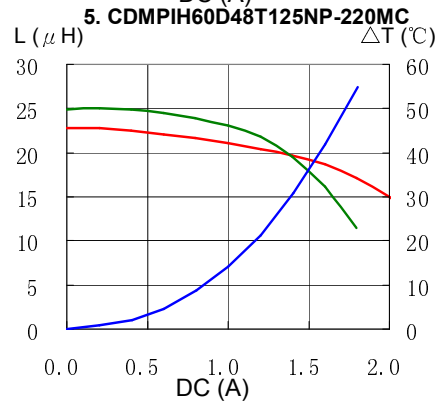
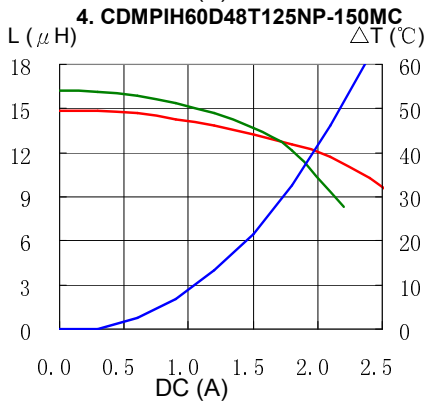
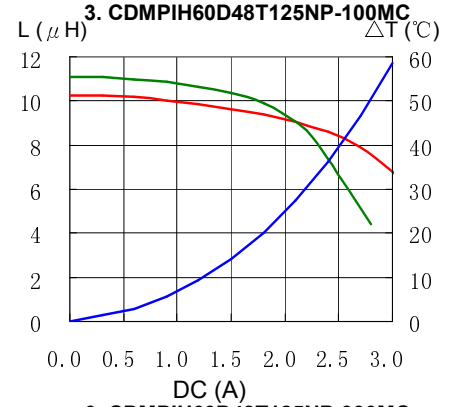
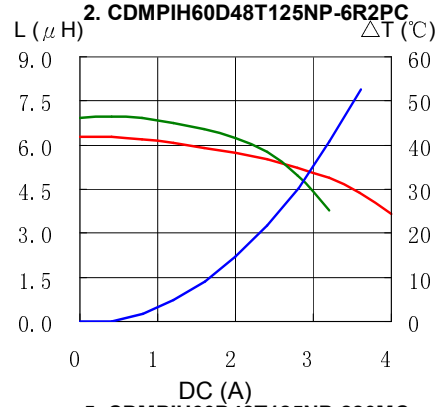
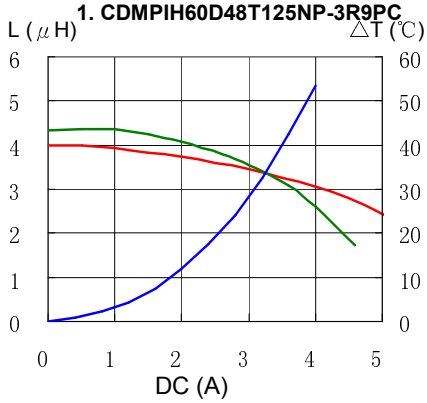
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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$



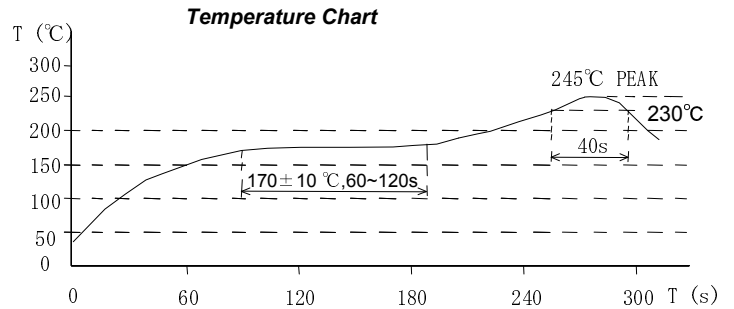
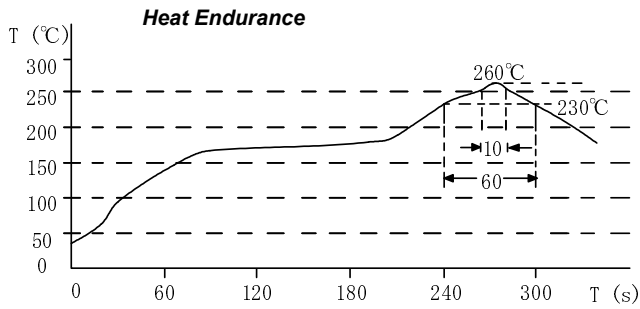
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## Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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