

SMD Power Inductor CDRH60D45B/T150



Description

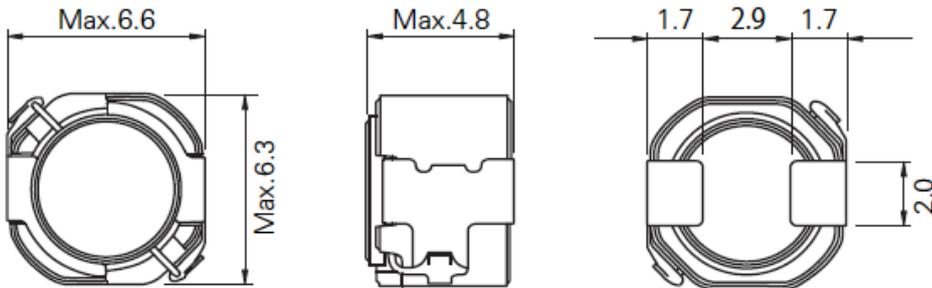
- Ferrite drum core construction
- Magnetically shielded
- Qualified AEC-Q200
- Operating Temperature: -55°C to +150°C (including self-heating)



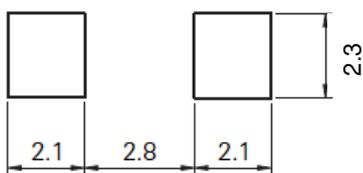
Applications

- LED Head light for Automobile
- ECU, DC/DC converter
- Automotive and other high temperature, high reliability application

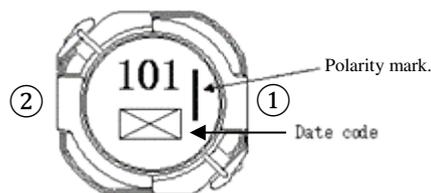
Dimension [mm]



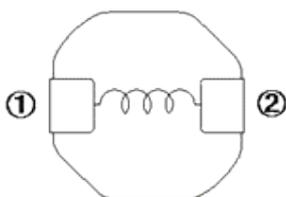
Reference Land pattern [mm]



Stamp Example



Connection (Bottom View)



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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Electrical Characteristics

| Part No. | Inductance (μ H) ※1 | D.C.R (Ω) | Saturation Current (A) at 20°C TYP. ※2 | Temperature Rise Current (A) TYP. ※3 |
|-------------------------|--------------------------------|--------------------|--|---|
| CDRH60D45BT150NP -1R0NC | 1.0 \pm 30% | 14.3m(11.0m) | 8.50 | 4.80 |
| CDRH60D45BT150NP -1R5NC | 1.5 \pm 30% | 16.9m(13.0m) | 7.20 | 4.50 |
| CDRH60D45BT150NP -2R2NC | 2.2 \pm 30% | 19.5m(15.0m) | 5.70 | 4.10 |
| CDRH60D45BT150NP -3R3NC | 3.3 \pm 30% | 23.4m(18.0m) | 5.00 | 3.70 |
| CDRH60D45BT150NP -4R7NC | 4.7 \pm 30% | 29.9m(23.0m) | 4.10 | 3.40 |
| CDRH60D45BT150NP -6R8NC | 6.8 \pm 30% | 35.1m(27.0m) | 3.60 | 3.10 |
| CDRH60D45BT150NP -100MC | 10 \pm 20% | 45.6m(38.0m) | 2.80 | 2.60 |
| CDRH60D45BT150NP -150MC | 15 \pm 20% | 76.8m(64.0m) | 2.30 | 2.00 |
| CDRH60D45BT150NP -220MC | 22 \pm 20% | 98.4m(82.0m) | 1.90 | 1.70 |
| CDRH60D45BT150NP -330MC | 33 \pm 20% | 126m(105m) | 1.56 | 1.60 |
| CDRH60D45BT150NP -470MC | 47 \pm 20% | 156m(130m) | 1.28 | 1.40 |
| CDRH60D45BT150NP -680MC | 68 \pm 20% | 252m(210m) | 1.07 | 1.10 |
| CDRH60D45BT150NP -101MC | 100 \pm 20% | 408m(340m) | 0.90 | 0.86 |
| CDRH60D45BT150NP -151MC | 150 \pm 20% | 576m(480m) | 0.74 | 0.72 |
| CDRH60D45BT150NP -221MC | 220 \pm 20% | 864m(720m) | 0.62 | 0.57 |
| CDRH60D45BT150NP -331MC | 330 \pm 20% | 1.16(970m) | 0.50 | 0.49 |

※ Measuring frequency inductance at 100kHz,1V.

※ Saturation current: DC current which becomes inductance value drop by 30% from the nominal value.

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

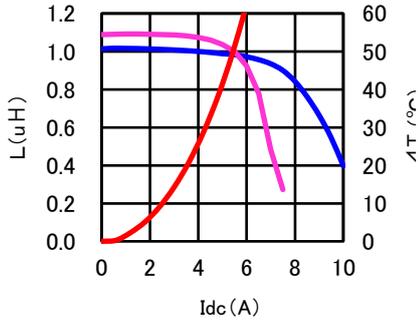
Please note that when using the product for automotive while applying current with audio-frequency (AF) signals may result in audible noises due to magnetostriction. Also, in order to avoid noise problem, operating with Non-AF signals would be recommended. The noise may amplify depending on the coil mount area on the PCB.

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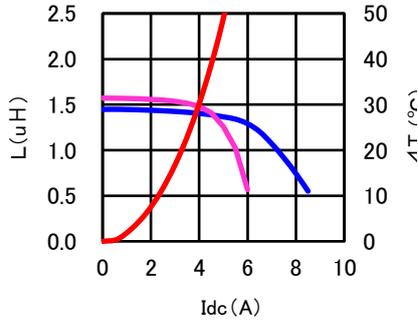


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) — ΔT

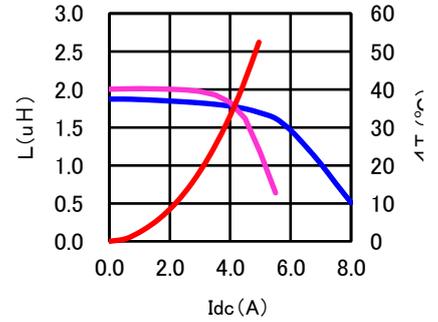
CDRH60D45BT150NP-1R0NC



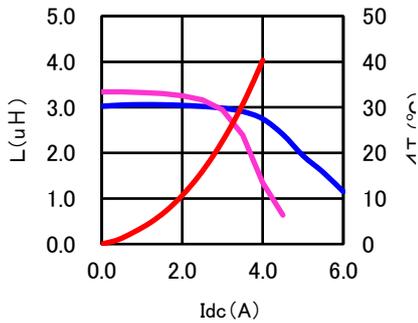
CDRH60D45BT150NP-1R5NC



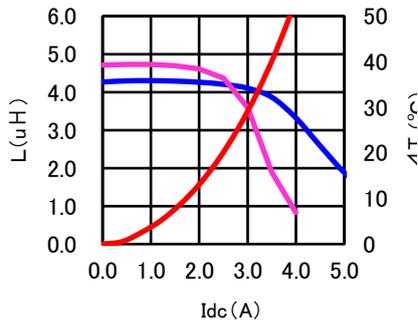
CDRH60D45BT150NP-2R2NC



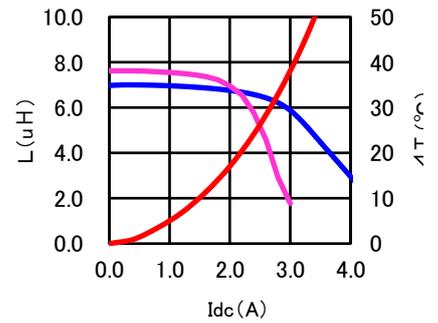
CDRH60D45BT150NP-3R3NC



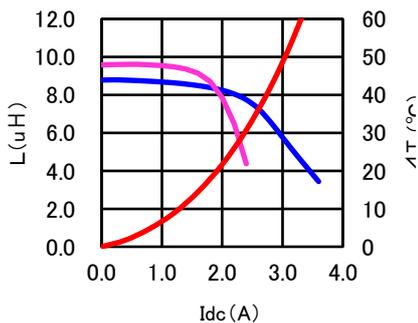
CDRH60D45BT150NP-4R7NC



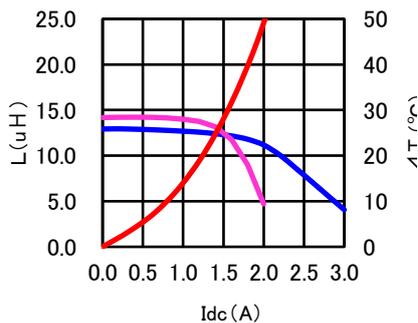
CDRH60D45BT150NP-6R8NC



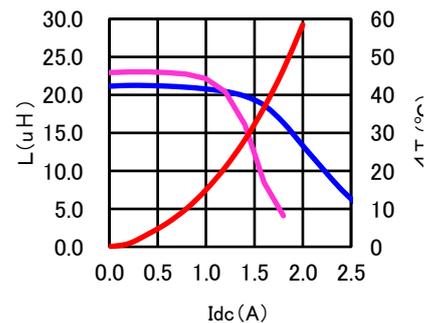
CDRH60D45BT150NP-100MC



CDRH60D45BT150NP-150MC



CDRH60D45BT150NP-220MC



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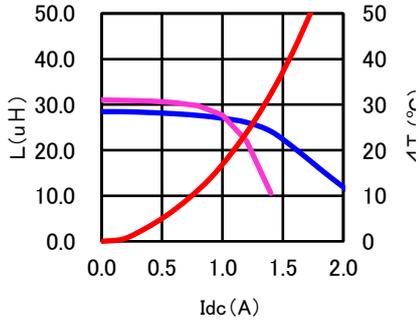
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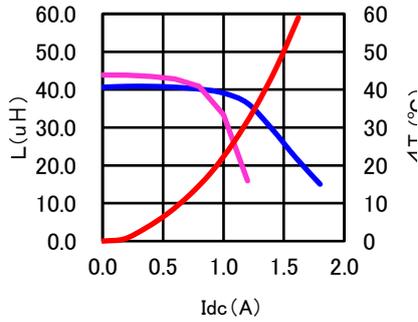


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) — ΔT

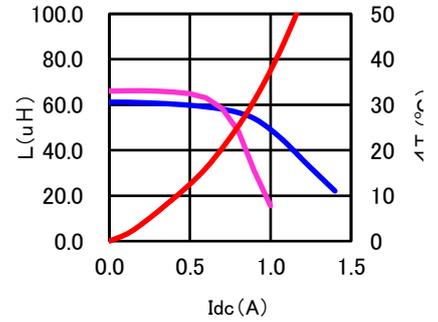
CDRH60D45BT150NP-330MC



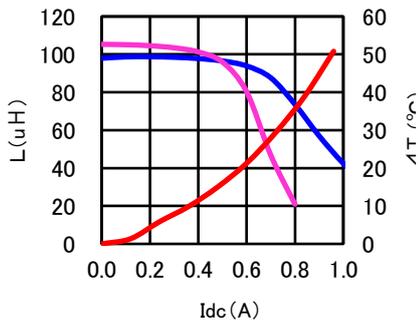
CDRH60D45BT150NP-470MC



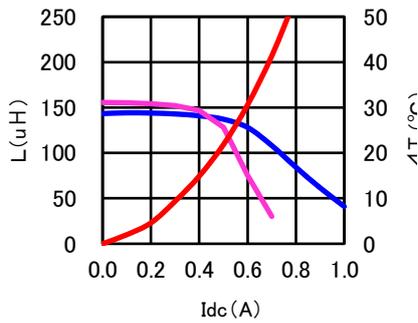
CDRH60D45BT150NP-680MC



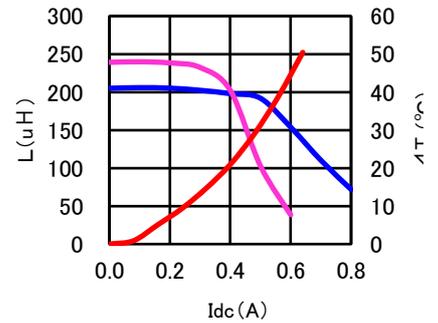
CDRH60D45BT150NP-101MC



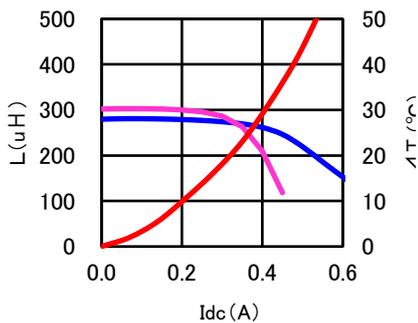
CDRH60D45BT150NP-151MC



CDRH60D45BT150NP-221MC



CDRH60D45BT150NP-331MC



For sales office information, please [click here](#) to visit our website.

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