

SMD Power Inductor CDRH80D65B/T150



Description

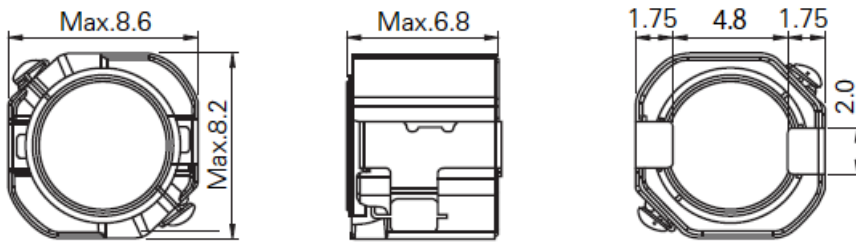
- Ferrite drum core construction
- Magnetically shielded
- Qualified AEC-Q200
- Operating Temperature: -55°C to +150°C (including self-heating)



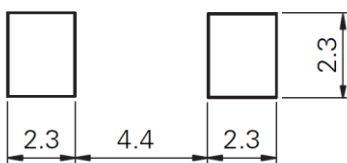
Applications

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

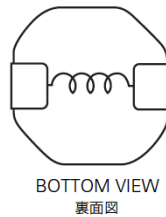
Dimension [mm]



Reference Land pattern [mm]



Connection



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 (μH) ※1 | D.C.R (m Ω) ($\pm 30\%$) | Saturation Current (A) at 20°C TYP. ※2 | Temperature Rise Current (A) TYP. ※3 |
|------------------------|---------------------------------------|---------------------------------------|--|---|
| CDRH80D65BT150NP-1R0NC | 1.0 $\pm 30\%$ | 6.4 | 14.3 | 8.74 |
| CDRH80D65BT150NP-1R5NC | 1.5 $\pm 30\%$ | 7.5 | 11.6 | 7.80 |
| CDRH80D65BT150NP-2R2NC | 2.2 $\pm 30\%$ | 9.6 | 9.50 | 6.71 |
| CDRH80D65BT150NP-3R3NC | 3.3 $\pm 30\%$ | 10.8 | 7.65 | 6.35 |
| CDRH80D65BT150NP-3R9NC | 3.9 $\pm 30\%$ | 11.8 | 7.05 | 6.10 |
| CDRH80D65BT150NP-4R7NC | 4.7 $\pm 30\%$ | 13.2 | 6.49 | 5.49 |
| CDRH80D65BT150NP-6R8NC | 6.8 $\pm 30\%$ | 15.8 | 5.40 | 5.02 |
| CDRH80D65BT150NP-100MC | 10 $\pm 20\%$ | 19.8 | 4.50 | 4.54 |
| CDRH80D65BT150NP-150MC | 15 $\pm 20\%$ | 35.0 | 3.55 | 3.16 |
| CDRH80D65BT150NP-220MC | 22 $\pm 20\%$ | 49.0 | 2.94 | 2.83 |
| CDRH80D65BT150NP-330MC | 33 $\pm 20\%$ | 86.0 | 2.42 | 1.93 |
| CDRH80D65BT150NP-470MC | 47 $\pm 20\%$ | 105 | 2.02 | 1.74 |
| CDRH80D65BT150NP-680MC | 68 $\pm 20\%$ | 131 | 1.67 | 1.57 |
| CDRH80D65BT150NP-101MC | 100 $\pm 20\%$ | 168 | 1.41 | 1.37 |
| CDRH80D65BT150NP-151MC | 150 $\pm 20\%$ | 267 | 1.17 | 1.09 |
| CDRH80D65BT150NP-221MC | 220 $\pm 20\%$ | 475 | 0.94 | 0.73 |
| CDRH80D65BT150NP-331MC | 330 $\pm 20\%$ | 646 | 0.77 | 0.67 |
| CDRH80D65BT150NP-471MC | 470 $\pm 20\%$ | 799 | 0.64 | 0.61 |
| CDRH80D65BT150NP-681MC | 680 $\pm 20\%$ | 1180 | 0.53 | 0.46 |
| CDRH80D65BT150NP-102MC | 1000 $\pm 20\%$ | 1980 | 0.43 | 0.35 |

※ 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.

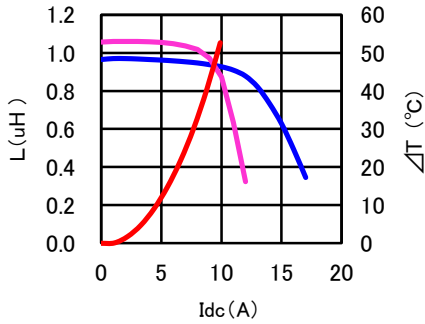
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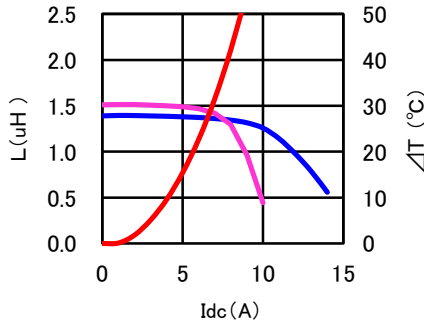


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) — ΔT

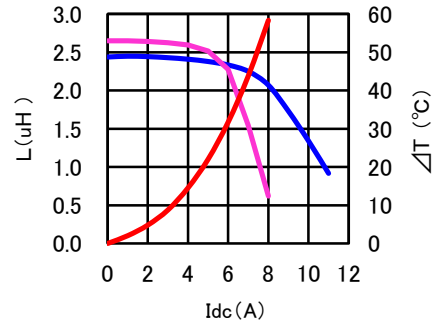
CDRH80D65BT150NP-1R0NC



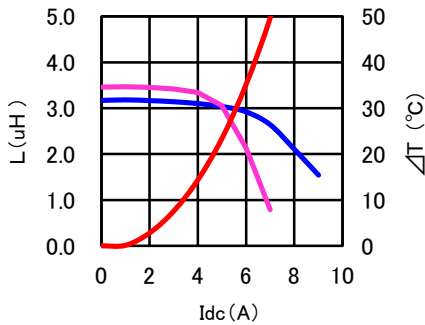
CDRH80D65BT150NP-1R5NC



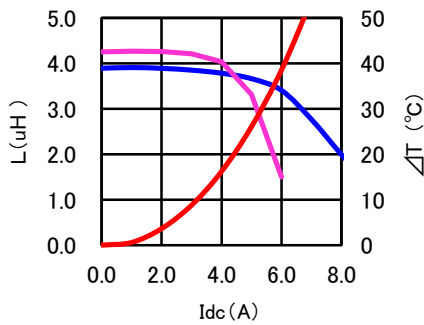
CDRH80D65BT150NP-2R2NC



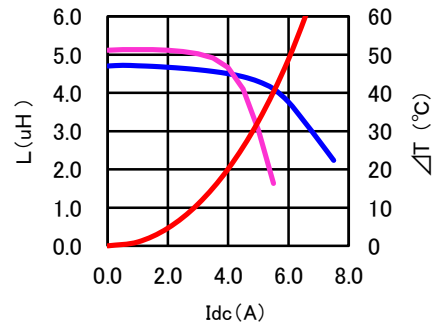
CDRH80D65BT150NP-3R3NC



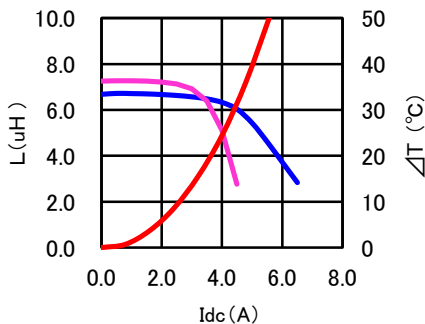
CDRH80D65BT150NP-3R9NC



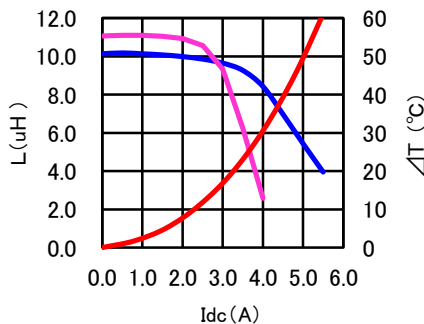
CDRH80D65BT150NP-4R7NC



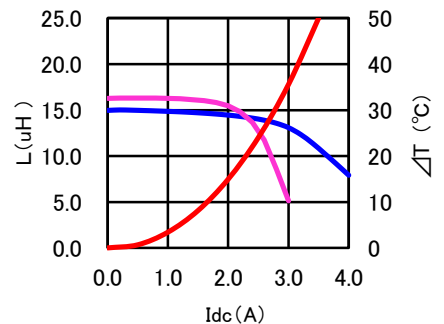
CDRH80D65BT150NP-6R8NC



CDRH80D65BT150NP-100MC



CDRH80D65BT150NP-150MC



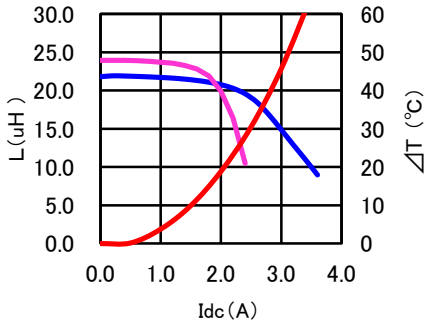
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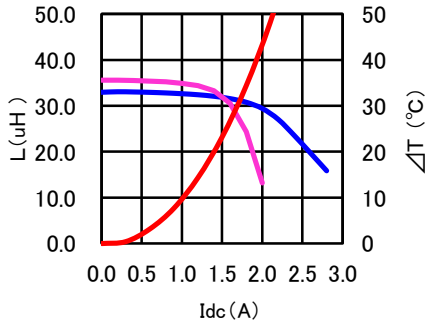


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) — ΔT

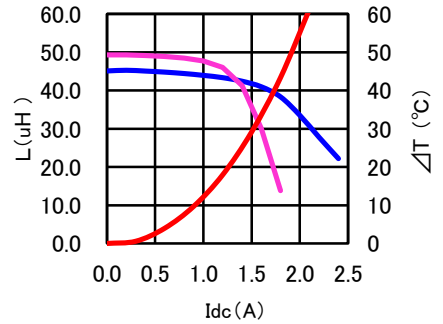
CDRH80D65BT150NP-220MC



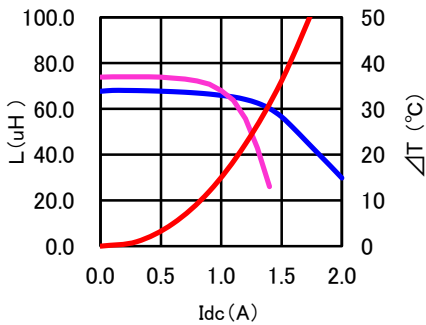
CDRH80D65BT150NP-330MC



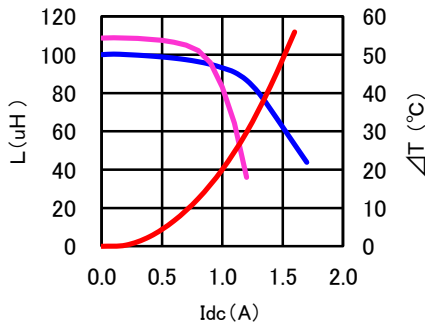
CDRH80D65BT150NP-470MC



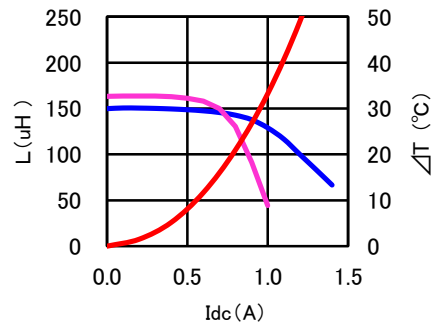
CDRH80D65BT150NP-680MC



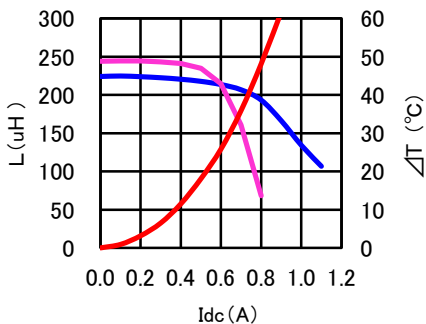
CDRH80D65BT150NP-101MC



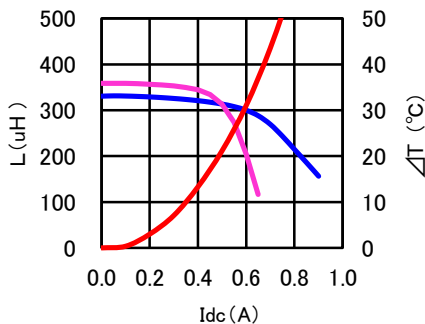
CDRH80D65BT150NP-151MC



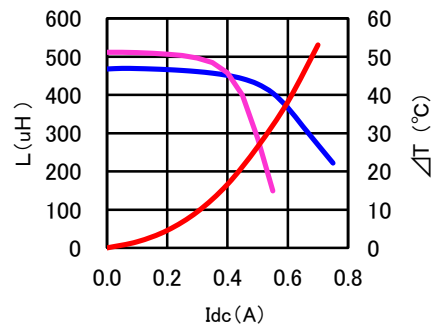
CDRH80D65BT150NP-221MC



CDRH80D65BT150NP-331MC



CDRH80D65BT150NP-471MC



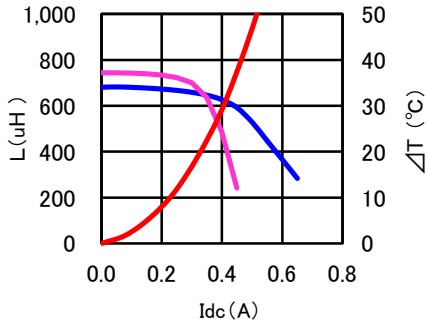
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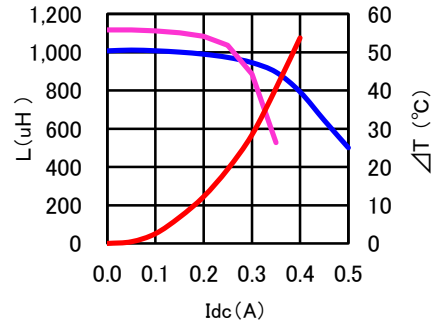


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) — ΔT

CDRH80D65BT150NP-681MC



CDRH80D65BT150NP-102MC



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

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