

# SMD Power Inductor CDRH10D60B/T150



Provisional

## Description

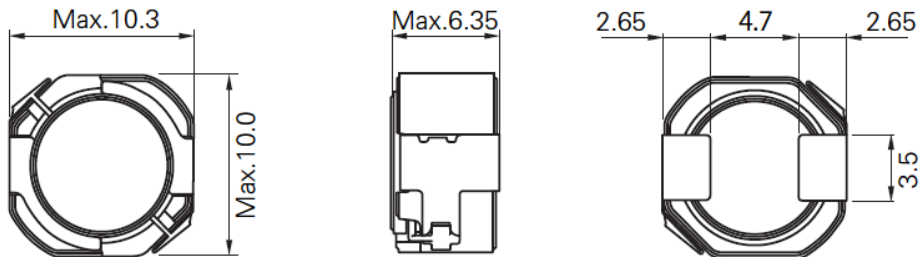
- Ferrite drum core construction
- Magnetically shielded
- Qualified AEC-Q200
- Operating Temperature: -55°C to +150°C (including self-heating)



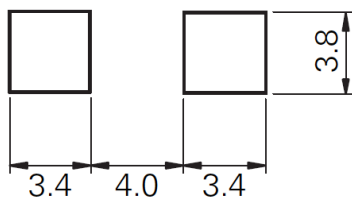
## Applications

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

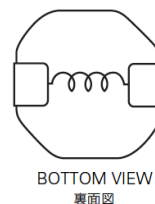
## Dimension [mm]



## Reference Land pattern [mm]



## Connection



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### Electrical Characteristics

Part No.	Inductance ( $\mu$ H) ※1	D.C.R (m $\Omega$ ) ( $\pm$ 30%)	Saturation Current (A) at 20°C TYP. ※2	Temperature Rise Current (A) TYP. ※3
CDRH10D60BT150NP -R80NC	0.8 $\pm$ 30%	5.4	21.2	12.6
CDRH10D60BT150NP -1R3NC	1.3 $\pm$ 30%	6.2	17.0	11.3
CDRH10D60BT150NP -2R0NC	2.0 $\pm$ 30%	7.1	13.6	10.9
CDRH10D60BT150NP -2R7NC	2.7 $\pm$ 30%	8.5	11.7	10.4
CDRH10D60BT150NP -4R7NC	4.7 $\pm$ 30%	12.0	8.80	8.50
CDRH10D60BT150NP -6R8NC	6.8 $\pm$ 30%	15.0	7.40	7.90
CDRH10D60BT150NP -100MC	10 $\pm$ 20%	17.0	6.20	6.90
CDRH10D60BT150NP -150MC	15 $\pm$ 20%	30.0	4.90	5.30
CDRH10D60BT150NP -220MC	22 $\pm$ 20%	43.0	4.10	4.35
CDRH10D60BT150NP -330MC	33 $\pm$ 20%	57.0	3.35	3.75
CDRH10D60BT150NP -470MC	47 $\pm$ 20%	74.0	2.82	3.45
CDRH10D60BT150NP -680MC	68 $\pm$ 20%	88.0	2.36	3.10
CDRH10D60BT150NP -101MC	100 $\pm$ 20%	160	1.92	2.30
CDRH10D60BT150NP -151MC	150 $\pm$ 20%	250	1.60	1.75
CDRH10D60BT150NP -221MC	220 $\pm$ 20%	350	1.32	1.55
CDRH10D60BT150NP -331MC	330 $\pm$ 20%	515	1.06	1.15
CDRH10D60BT150NP -471MC	470 $\pm$ 20%	770	0.88	1.00

※ 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.

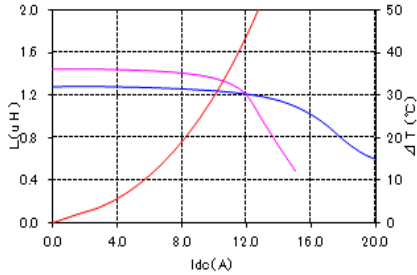
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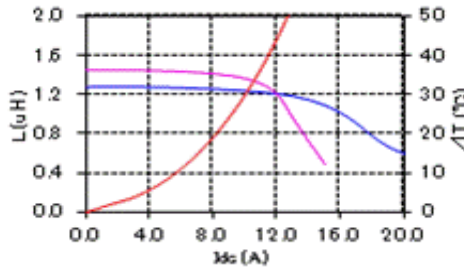
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Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) —  $\Delta T$

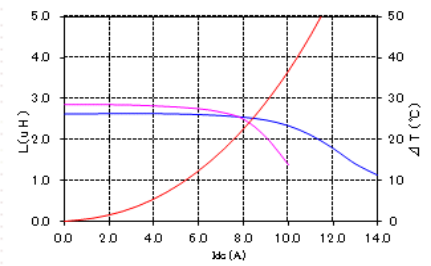
CDRH10D60B/T150NP-1R3NC



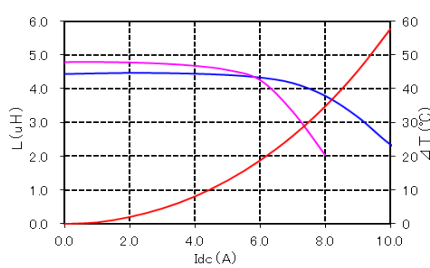
CDRH10D60B/T150NP-2R0NC



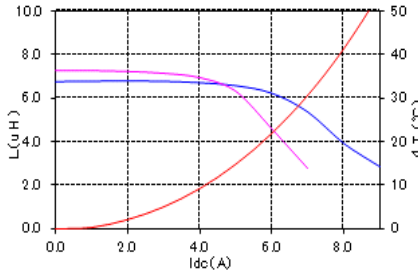
CDRH10D60B/T150NP-2R7NC



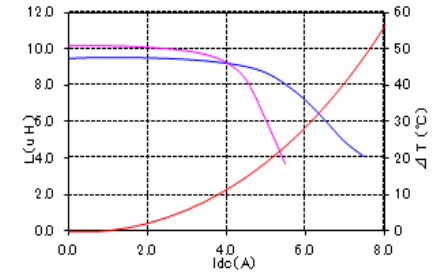
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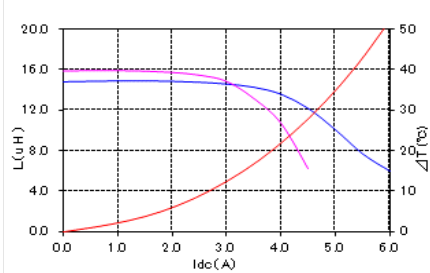
CDRH10D60B/T150NP-6R8NC



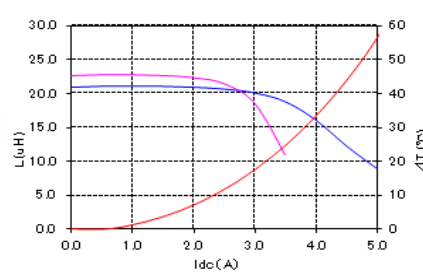
CDRH10D60B/T150NP-100MC



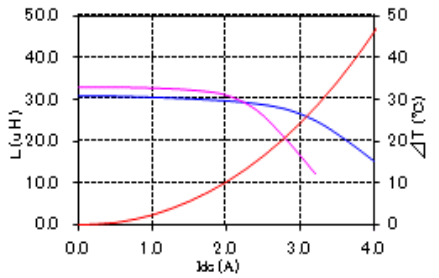
CDRH10D60B/T150NP-150MC



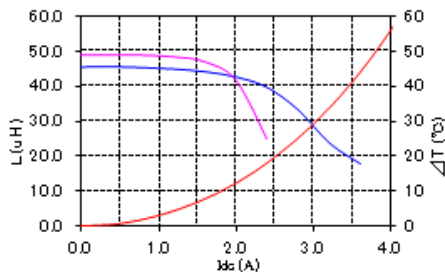
CDRH10D60B/T150NP-220MC



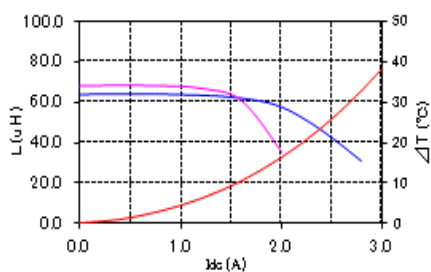
CDRH10D60B/T150NP-330MC



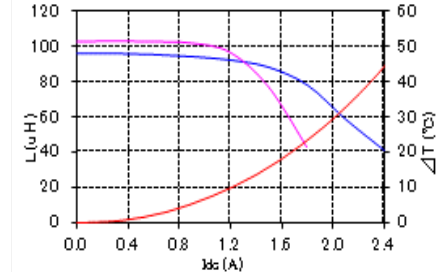
CDRH10D60B/T150NP-470MC



CDRH10D60B/T150NP-680MC



CDRH10D60B/T150NP-101MC



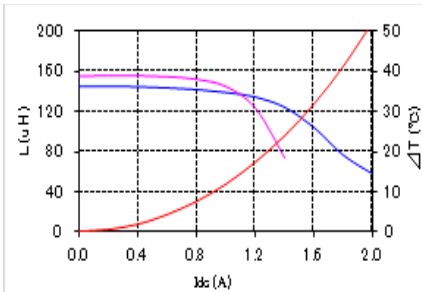
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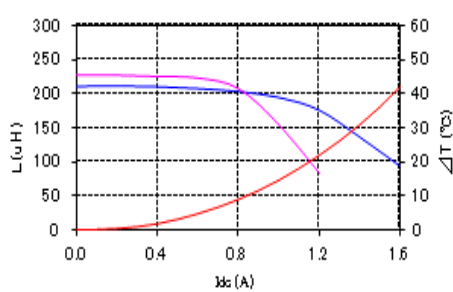
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Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) —  $\Delta T$

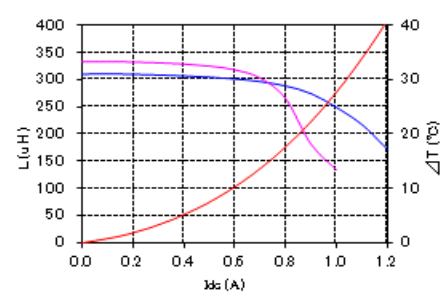
CDRH10D60B/T150NP-151MC



CDRH10D60B/T150NP-221MC



CDRH10D60B/T150NP-331MC



CDRH10D60B/T150NP-471MC

