

# SMD Power Inductor CDRH80D65B/T150



## Description

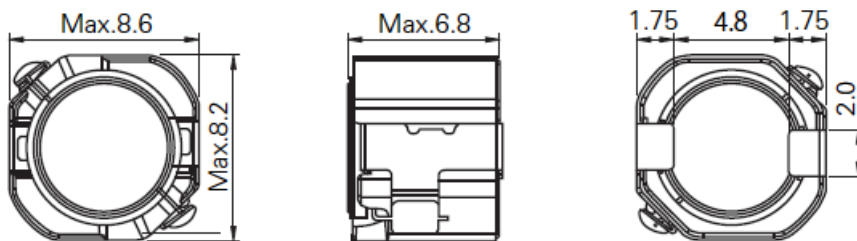
- Ferrite drum core construction
- Magnetically shielded
- Qualified AEC-Q200
- Operating Temperature: -55°C to +150°C (including self-heating)



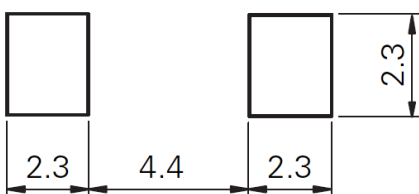
## Applications

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

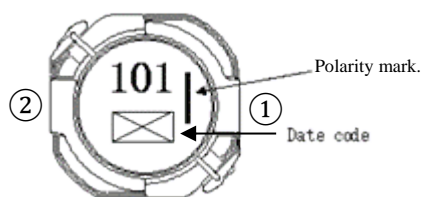
## Dimension [mm]



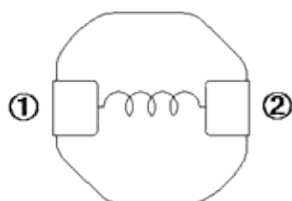
## Reference Land pattern [mm]



## 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 ( $\mu\text{H}$ ) ※1	D.C.R (m $\Omega$ ) ( $\pm 30\%$ )	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.

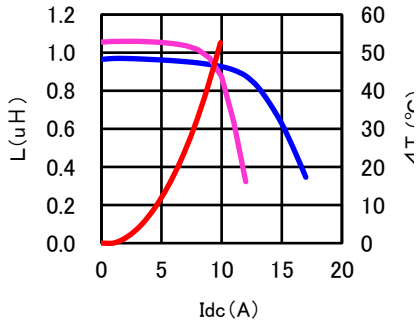
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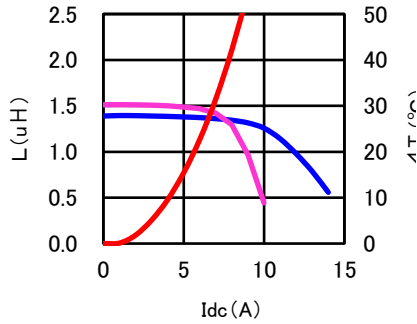


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) —  $\Delta T$

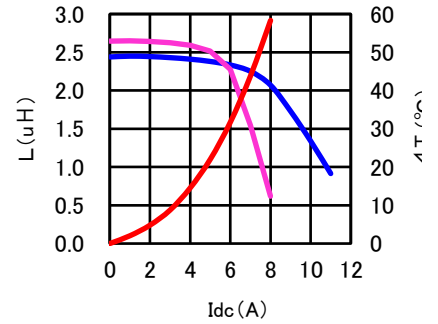
**CDRH80D65BT150NP-1R0NC**



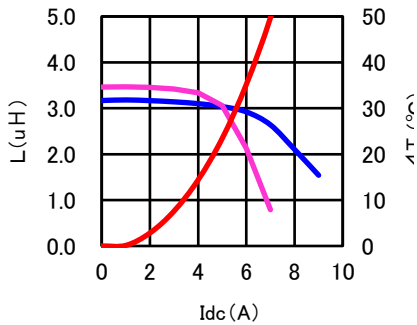
**CDRH80D65BT150NP-1R5NC**



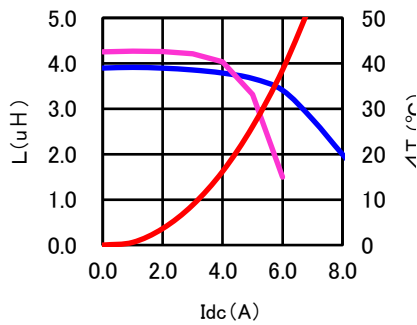
**CDRH80D65BT150NP-2R2NC**



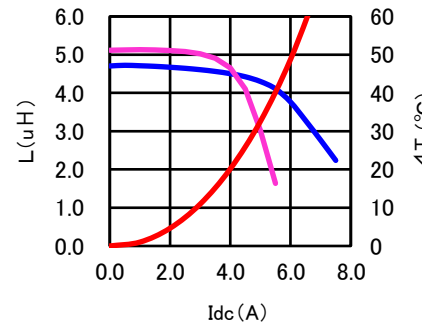
**CDRH80D65BT150NP-3R3NC**



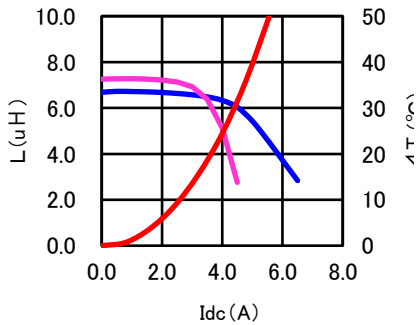
**CDRH80D65BT150NP-3R9NC**



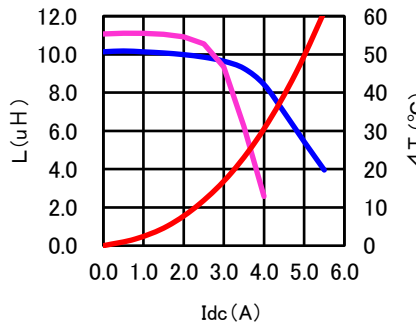
**CDRH80D65BT150NP-4R7NC**



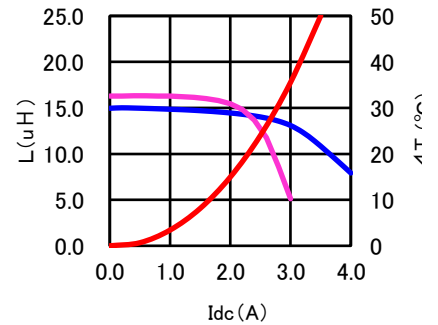
**CDRH80D65BT150NP-6R8NC**



**CDRH80D65BT150NP-100MC**



**CDRH80D65BT150NP-150MC**



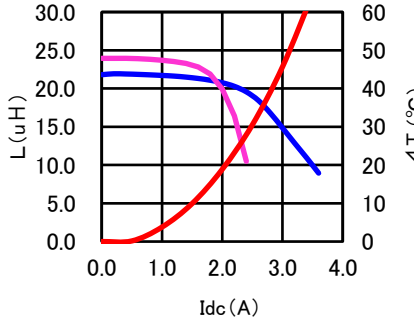
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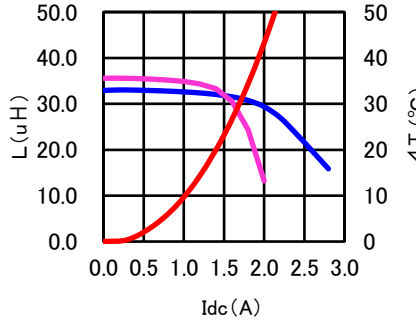


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) —  $\Delta T$

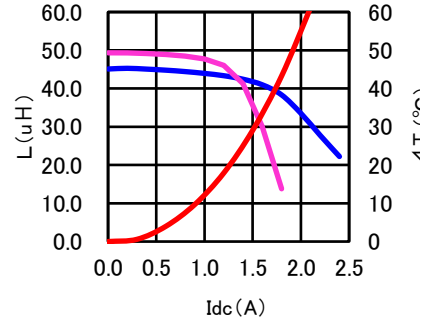
**CDRH80D65BT150NP-220MC**



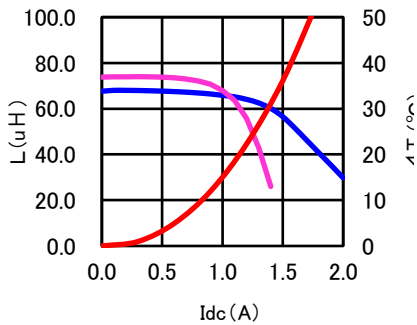
**CDRH80D65BT150NP-330MC**



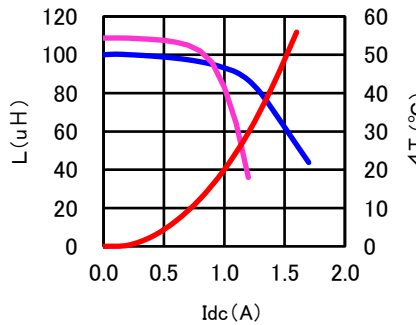
**CDRH80D65BT150NP-470MC**



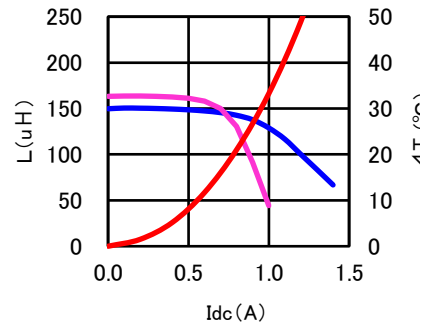
**CDRH80D65BT150NP-680MC**



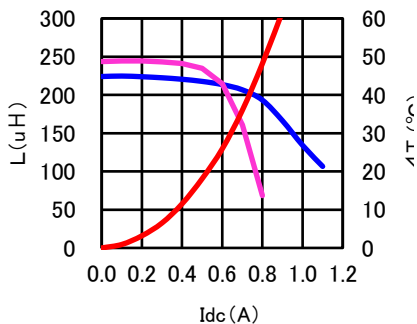
**CDRH80D65BT150NP-101MC**



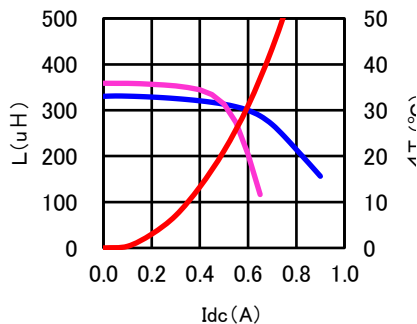
**CDRH80D65BT150NP-151MC**



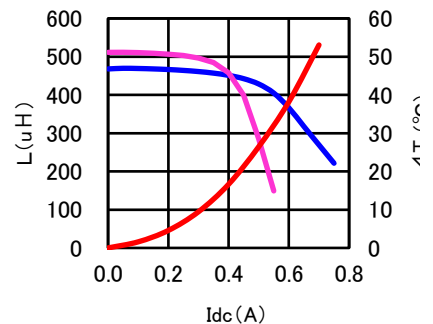
**CDRH80D65BT150NP-221MC**



**CDRH80D65BT150NP-331MC**



**CDRH80D65BT150NP-471MC**



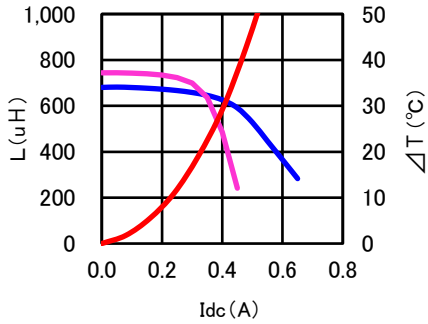
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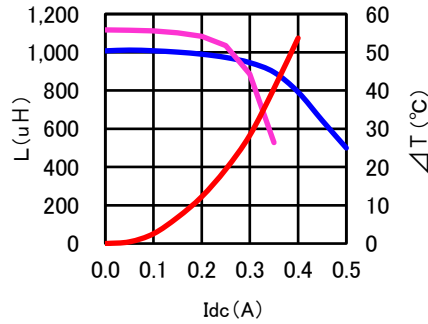


Saturation Current & Temperature Rise Graph — L (25°C) — L (150°C) —  $\Delta T$

CDRH80D65BT150NP-681MC



CDRH80D65BT150NP-102MC



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