THE DATASHEET OF

CDRH12D77BT150NP-101MC

SMD Power Inductor
CDRH12D77B/T150

Provisional

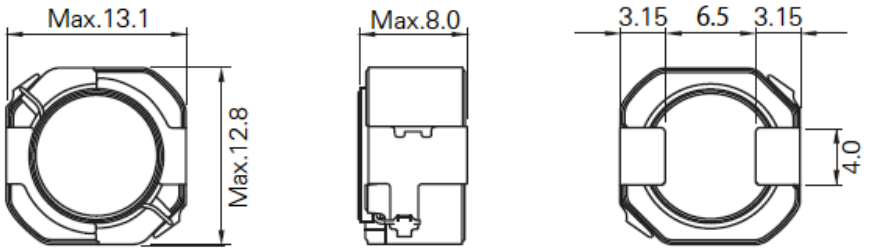
Description

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

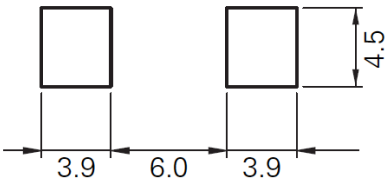
Applications

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

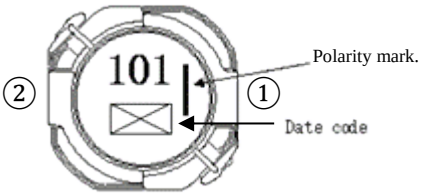
Dimension [mm]



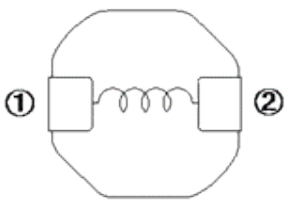
Reference Land pattern [mm]



Stamp Example



Connection (Bottom View)



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Electrical Characteristics

Part No.	Inductance (μH) ※1	D.C.R (mΩ)	Saturation Current (A) at 20℃ TYP. ※2	Temperature Rise Current (A) TYP. ※3
CDRH12D77BT150NP -1R0NC	1.0±30%	5.85(4.50)	31.0	14.0
CDRH12D77BT150NP -1R5NC	1.5 ±30%	7.02(5.40)	25.0	12.7
CDRH12D77BT150NP -2R2NC	2.2 ±30%	8.19(6.30)	20.6	11.7
CDRH12D77BT150NP -3R3NC	3.3 ±30%	9.62(7.40)	16.7	11.2
CDRH12D77BT150NP -4R2NC	4.2 ±30%	10.9(8.40)	14.7	10.5
CDRH12D77BT150NP -6R8NC	6.8 ±30%	16.9(13.0)	11.7	8.10
CDRH12D77BT150NP -100MC	10 ±20%	19.0(15.8)	9.70	7.50
CDRH12D77BT150NP -150MC	15 ±20%	27.6(23.0)	7.80	6.40
CDRH12D77BT150NP -220MC	22 ±20%	40.8(34.0)	6.40	5.10
CDRH12D77BT150NP -330MC	33 ±20%	57.6(48.0)	5.20	4.30
CDRH12D77BT150NP -470MC	47 ±20%	72.0(60.0)	4.40	4.00
CDRH12D77BT150NP -680MC	68 ±20%	92.4(77.0)	3.70	3.60
CDRH12D77BT150NP -101MC	100 ±20%	138(115)	3.05	2.80
CDRH12D77BT150NP -151MC	150 ±20%	198(165)	2.55	2.45
CDRH12D77BT150NP -221MC	220 ±20%	318(265)	2.05	1.80
CDRH12D77BT150NP -331MC	330 ±20%	444(370)	1.70	1.50
CDRH12D77BT150NP -471MC	470 ±20%	612(510)	1.40	1.32

※ 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 ⊿T=40℃(Ta=20℃).

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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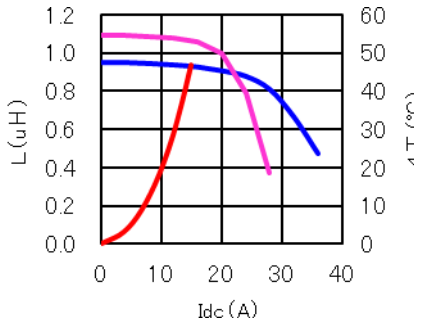
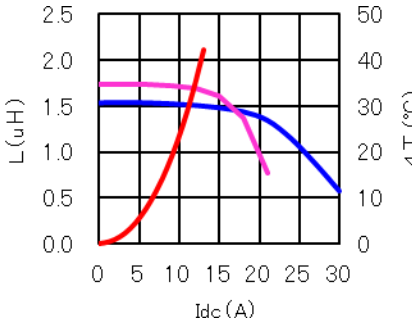
Saturation Current & Temperature Rise Graph L (25℃) L (150℃) ⊿T

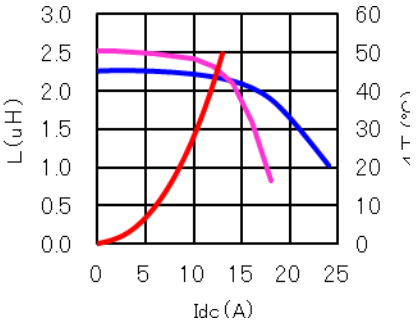
CDRH12D77BT150NP-1R0NC



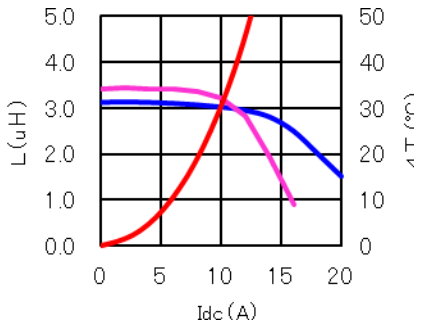
CDRH12D77BT150NP-1R5NC



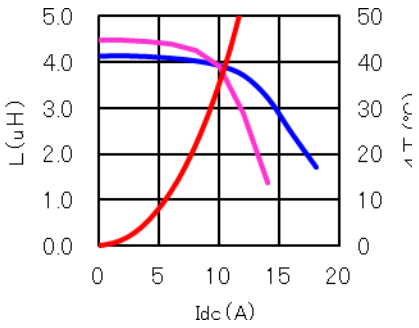
CDRH12D77BT150NP-2R2NC



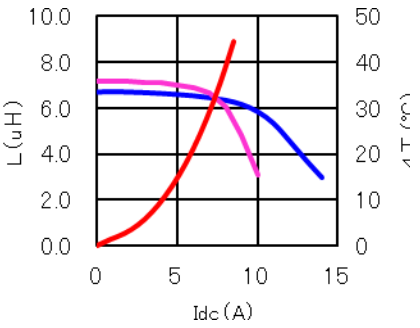
CDRH12D77BT150NP-3R3NC



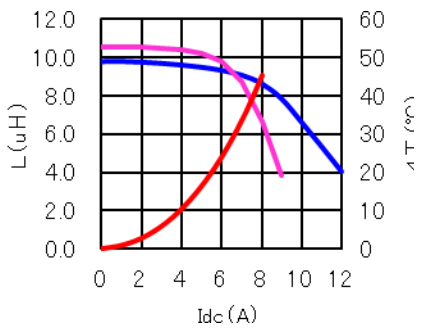
CDRH12D77BT150NP-4R2NC



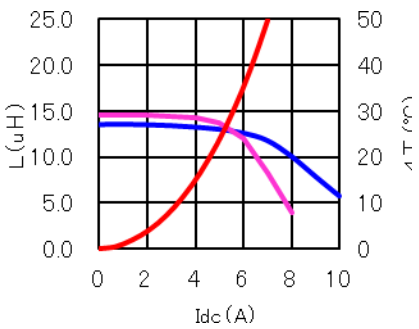
CDRH12D77BT150NP-6R8NC



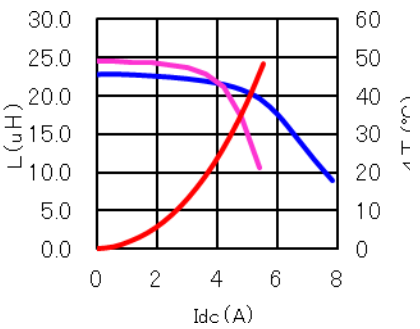
CDRH12D77BT150NP-100MC



CDRH12D77BT150NP-150MC



CDRH12D77BT150NP-220MC



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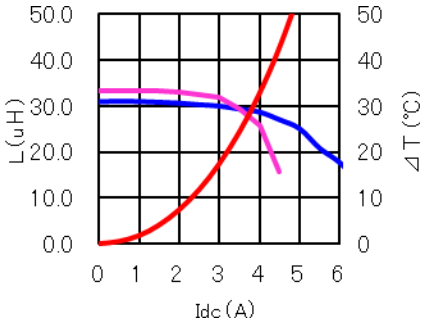
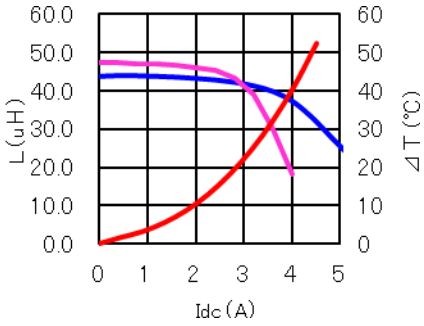
Saturation Current & Temperature Rise Graph L (25℃) L (150℃) ⊿T

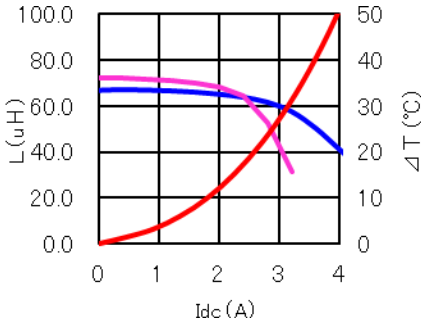
CDRH12D77BT150NP-330MC



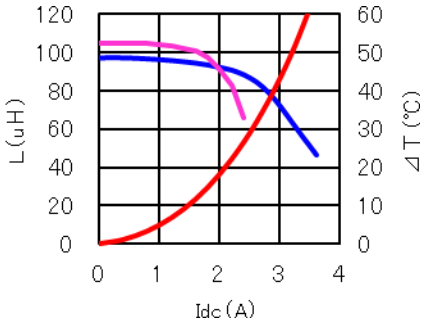
CDRH12D77BT150NP-470MC



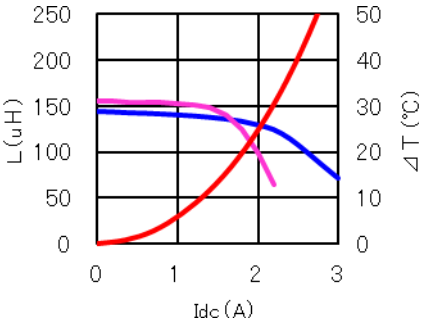
CDRH12D77BT150NP-680MC



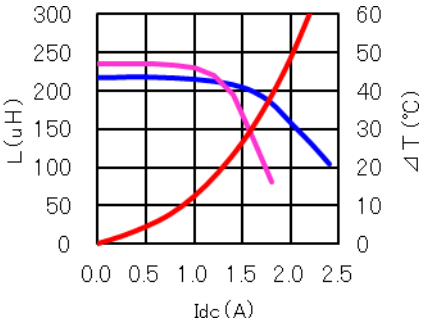
CDRH12D77BT150NP-101MC



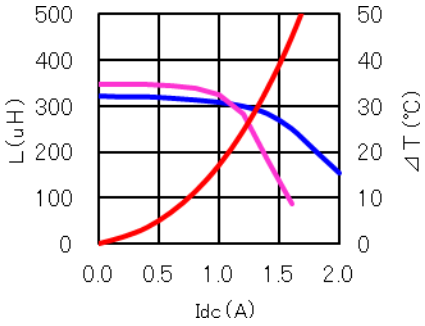
CDRH12D77BT150NP-151MC



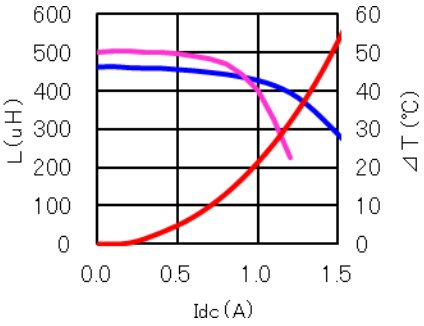
CDRH12D77BT150NP-221MC



CDRH12D77BT150NP-331MC



CDRH12D77B/T150NP-471MC



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