

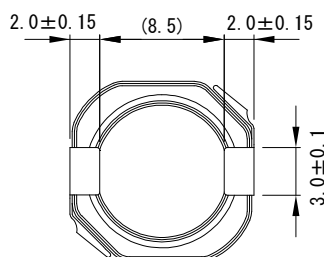
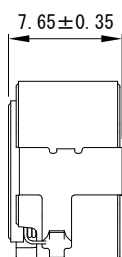
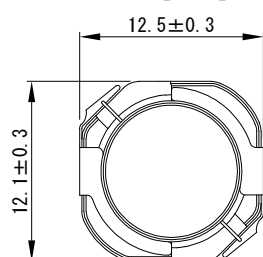
### Features

- Ferrite drum core construction
- Magnetically shielded.
- Qualified AEC-Q200
- Operating temperature range: - 40deg C ~ +150deg C (including coil's self temperature rise)

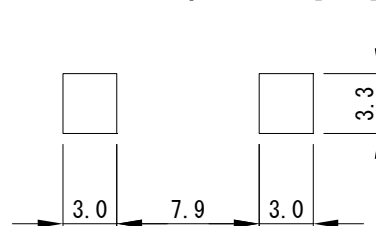
### Applications

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

### Dimension - [mm]



### Reference Land pattern- [mm]



### Electrical Characteristics

Part No.	Inductance (μH) (±20%) * 1	D.C.R (mΩ) 20degC	Saturation Current (A) 20degC * 2	Temperature Rise current (A) * 3
CDRH12D77T150NP-100MC	10	22±20%	6.2	3.9
CDRH12D77T150NP-150MC	15	28±20%	5.0	3.4
CDRH12D77T150NP-220MC	22	33±20%	4.2	3.1
CDRH12D77T150NP-330MC	33	52±20%	3.3	2.4
CDRH12D77T150NP-470MC	47	63±20%	2.9	2.3
CDRH12D77T150NP-680MC	68	79±20%	2.3	2.1
CDRH12D77T150NP-101MC	100	120±20%	1.90	1.67
CDRH12D77T150NP-151MC	150	165±20%	1.67	1.35
CDRH12D77T150NP-221MC	220	230±20%	1.32	1.16
CDRH12D77T150NP-331MC	330	370±20%	1.10	0.90
CDRH12D77T150NP-471MC	470	460±20%	0.88	0.83
CDRH12D77T150NP-681MC	680	720±20%	0.75	0.65
CDRH12D77T150NP-102MC	1000	1060±20%	0.62	0.51

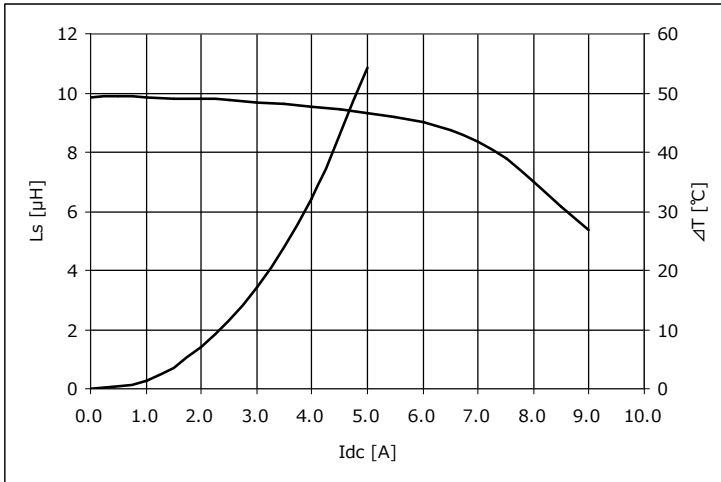
\* 1 Inductance measuring frequency: 100kHz, 1.0V

\* 2 Saturation current: DC current which becomes inductance value drop down by 10% from the initial value.

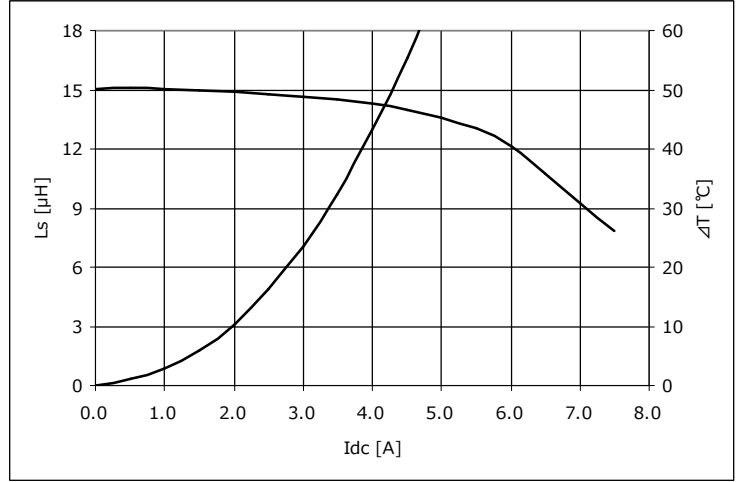
\* 3 Temperature rise current : DC current which becomes ΔT=30°C (Ta=20°C) in component body temperature.

CAUTION: Recommend not to operate with audio-frequency (AF) signals and should be mounted a proper position in the PCB to prevent noises problems which may be caused by magnetostriction.

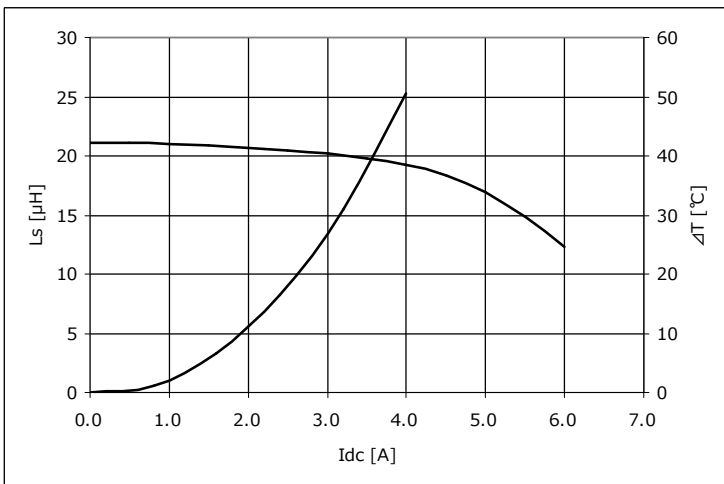
**CDRH12D77/T150NP-100M**



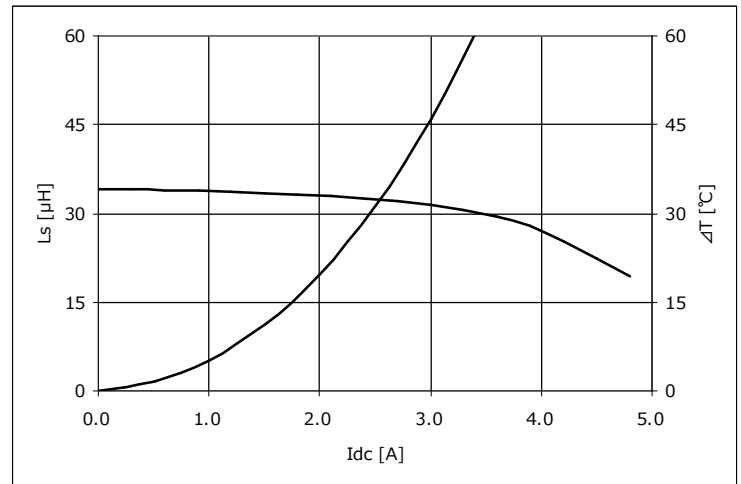
**CDRH12D77/T150NP-150M**



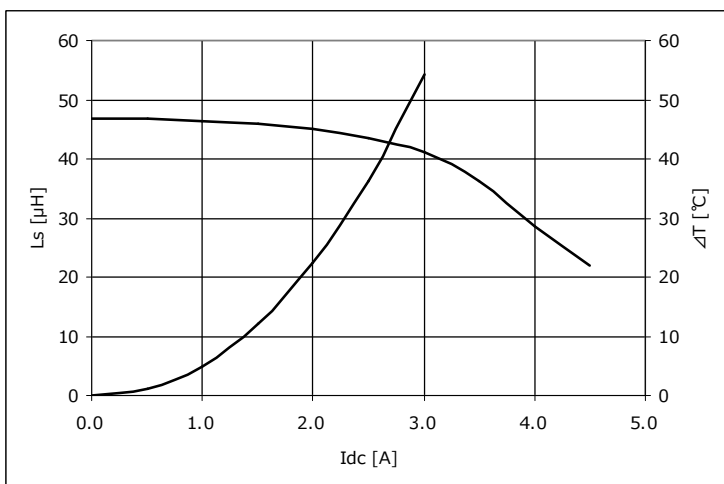
**CDRH12D77/T150NP-220M**



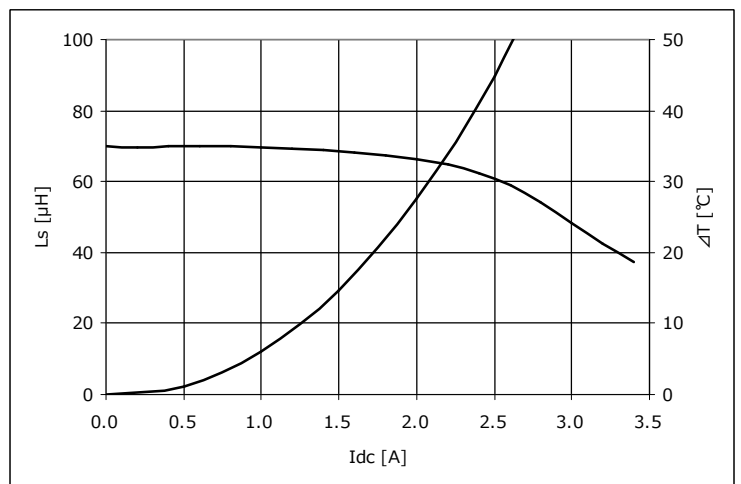
**CDRH12D77/T150NP-330M**



**CDRH12D77/T150NP-470M**



**CDRH12D77/T150NP-680M**

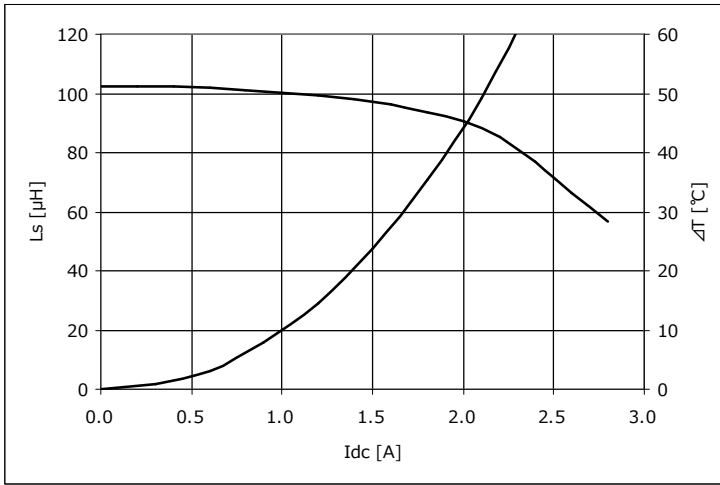


Note: This datasheet might be slightly modified without notice in order to improve the quality and reliability of the product. Please contact an appropriate our sales in your regions for checking final spec before you place an order.

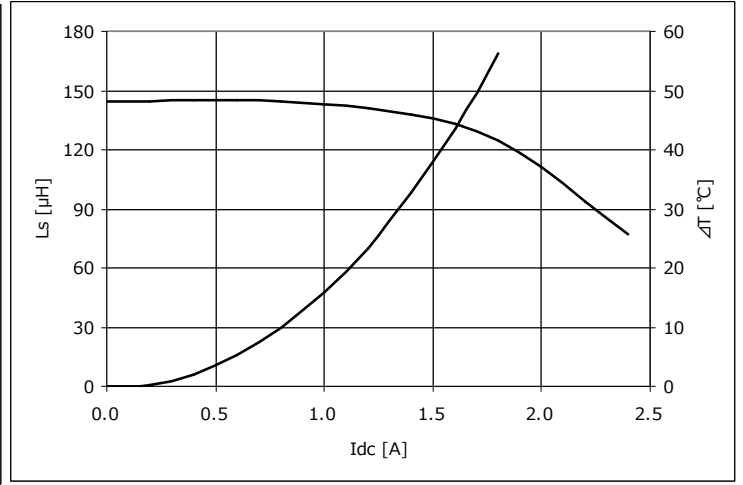
# CDRH12D77/T150



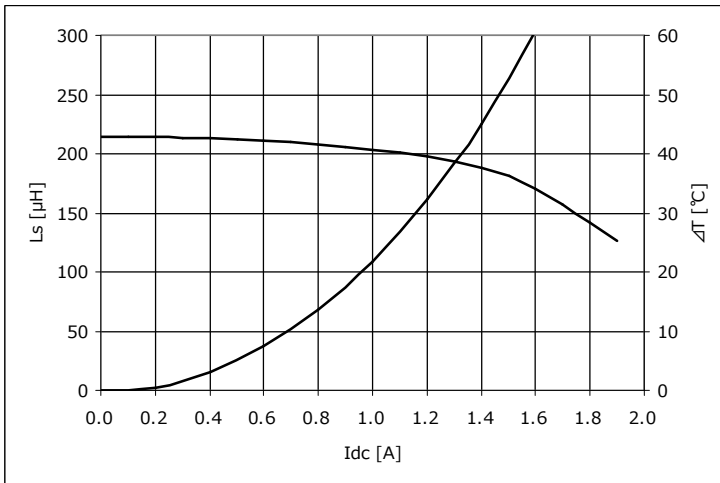
**CDRH12D77/T150NP-101M**



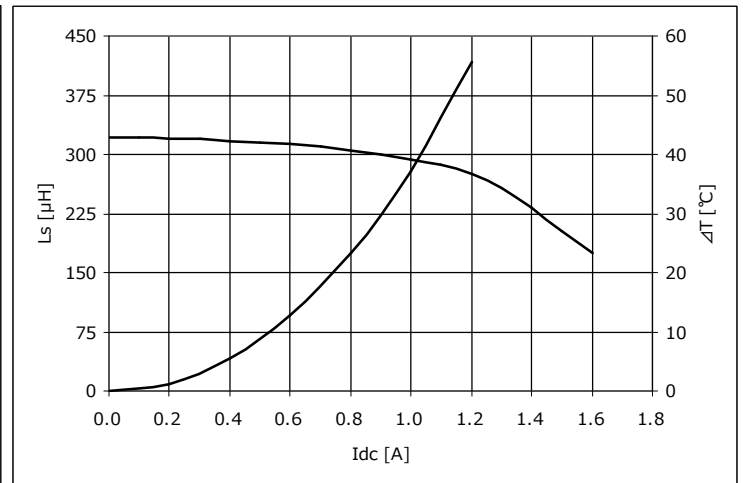
**CDRH12D77/T150NP-151M**



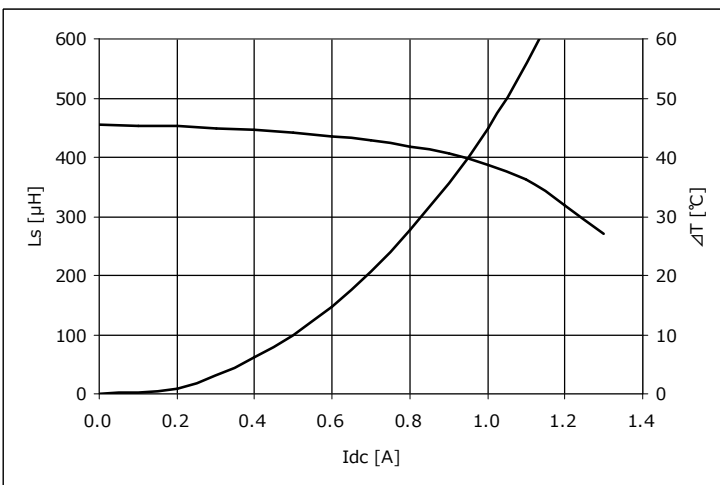
**CDRH12D77/T150NP-221M**



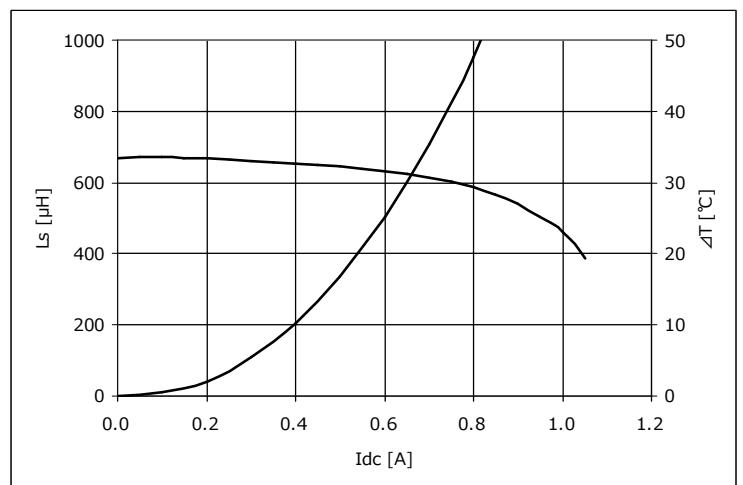
**CDRH12D77/T150NP-331M**



**CDRH12D77/T150NP-471M**

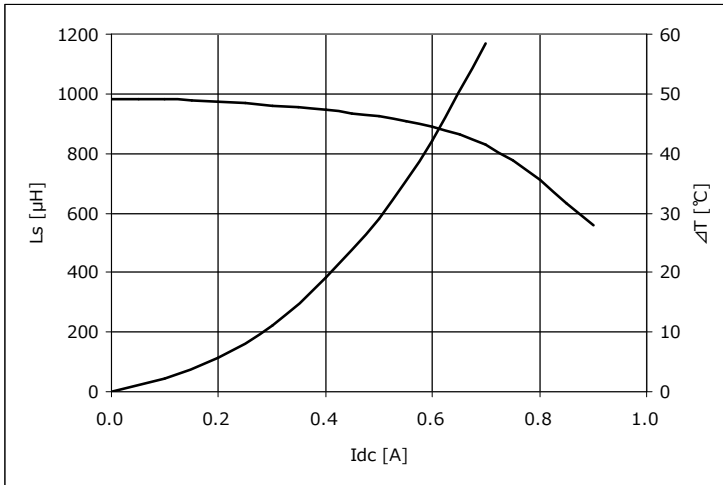


**CDRH12D77/T150NP-681M**

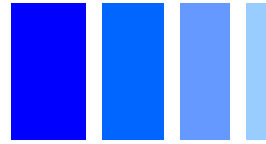


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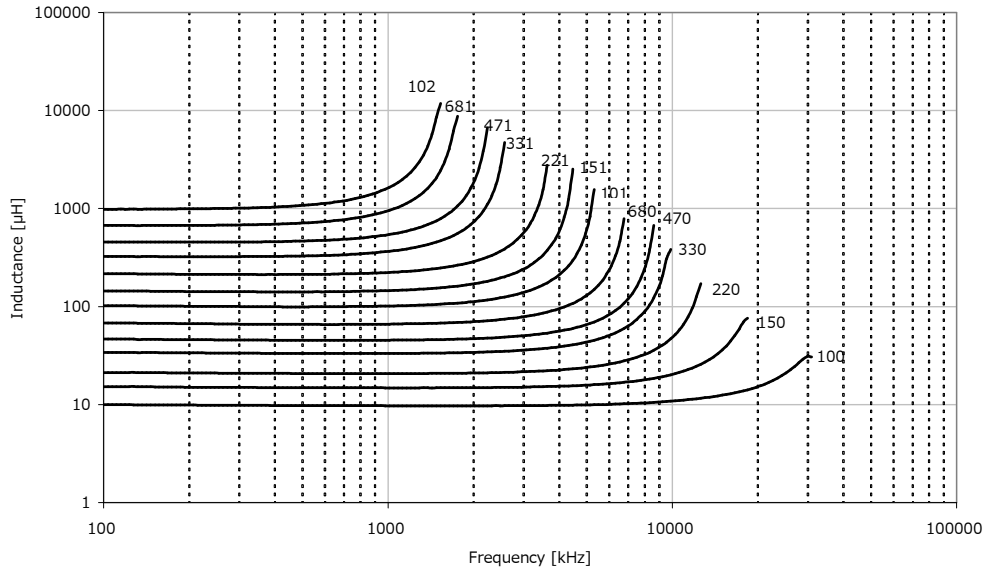
## CDRH12D77/T150NP-102M



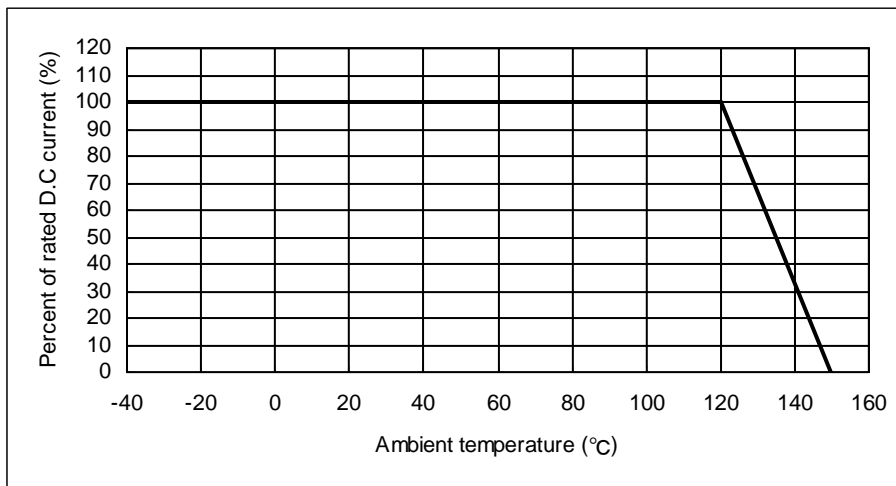
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## Inductance vs Frequency Graph



## Derating Curve (Temperature Rise Current)



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