

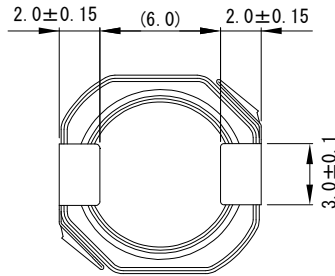
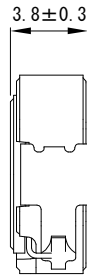
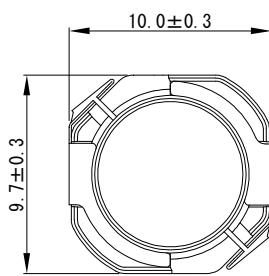
Features

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

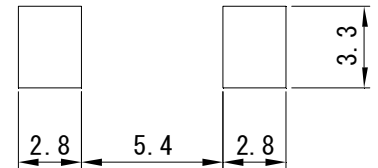
Applications

- 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
CDRH10D38T150NP-1R1MC	1.1	8.5±30%	12.0	5.8
CDRH10D38T150NP-1R6MC	1.6	10.5±30%	9.6	5.4
CDRH10D38T150NP-2R2MC	2.2	12.5±30%	8.2	4.9
CDRH10D38T150NP-3R0MC	3.0	14.0±30%	7.0	4.5
CDRH10D38T150NP-4R7MC	4.7	18.0±30%	5.7	4.0
CDRH10D38T150NP-6R8MC	6.8	22.5±30%	4.7	3.5
CDRH10D38T150NP-100MC	10	27±20%	4.0	3.3
CDRH10D38T150NP-150MC	15	50±20%	3.1	2.3
CDRH10D38T150NP-220MC	22	65±20%	2.7	2.0
CDRH10D38T150NP-330MC	33	115±20%	2.2	1.40
CDRH10D38T150NP-470MC	47	147±20%	1.8	1.25
CDRH10D38T150NP-680MC	68	200±20%	1.52	1.07
CDRH10D38T150NP-101MC	100	315±20%	1.24	0.86
CDRH10D38T150NP-151MC	150	480±20%	0.96	0.70
CDRH10D38T150NP-221MC	220	690±20%	0.82	0.52
CDRH10D38T150NP-331MC	330	1150±20%	0.67	0.43
CDRH10D38T150NP-471MC	470	1420±20%	0.59	0.40

* 1 Inductance Measuring frequency: 100kHz, 1.0V

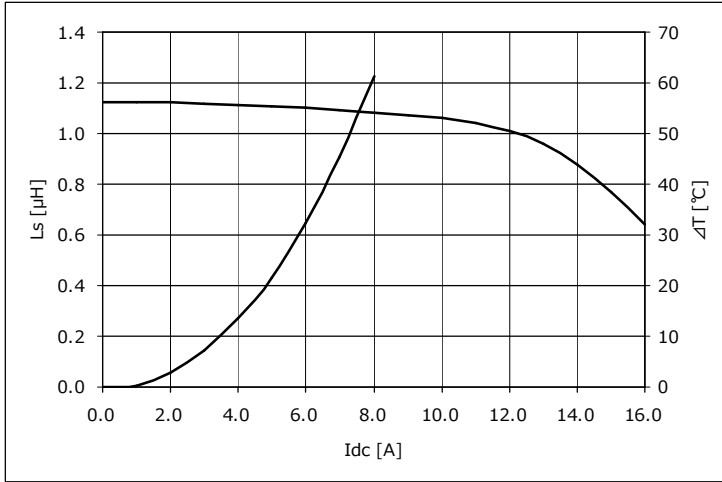
* 2 Saturation current: DC current which becomes inductance value drop down by 10% from the initial value.

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

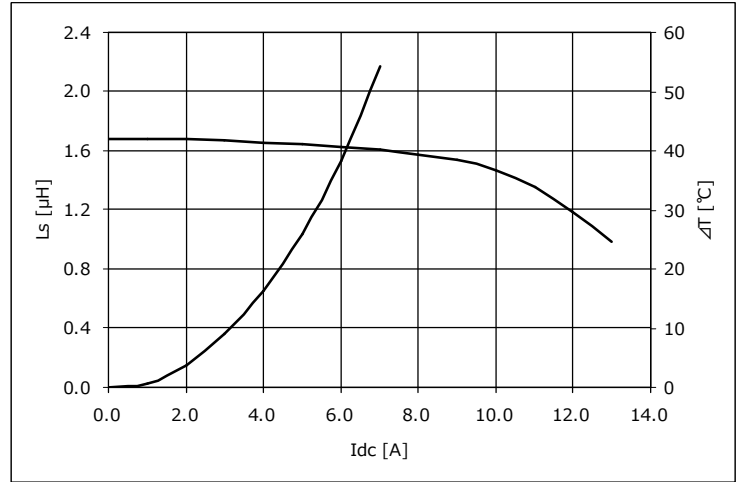
CAUTION: Recommend not to operate with audio-frequency (AF) signals and should be mounted a proper position in the PCB to prevent noises problems which may be caused by magnetostriction.

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.

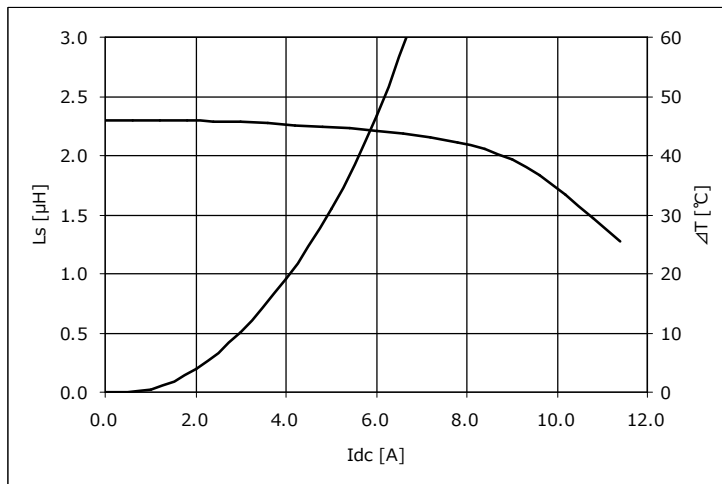
CDRH10D38T150NP-1R1MC



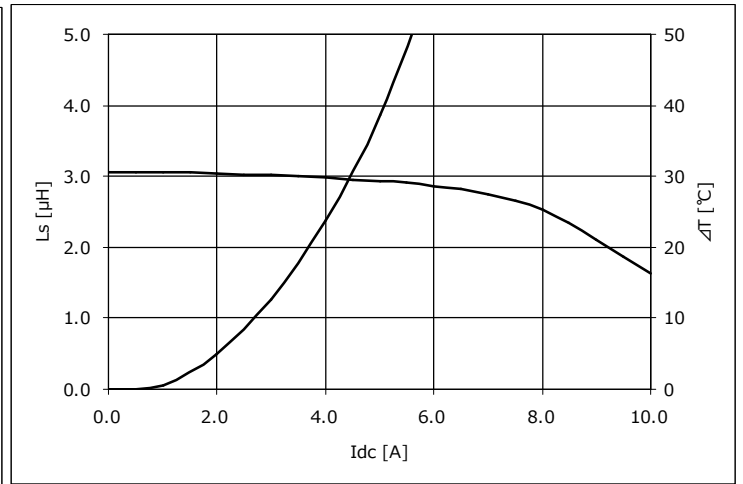
CDRH10D38T150NP-1R6MC



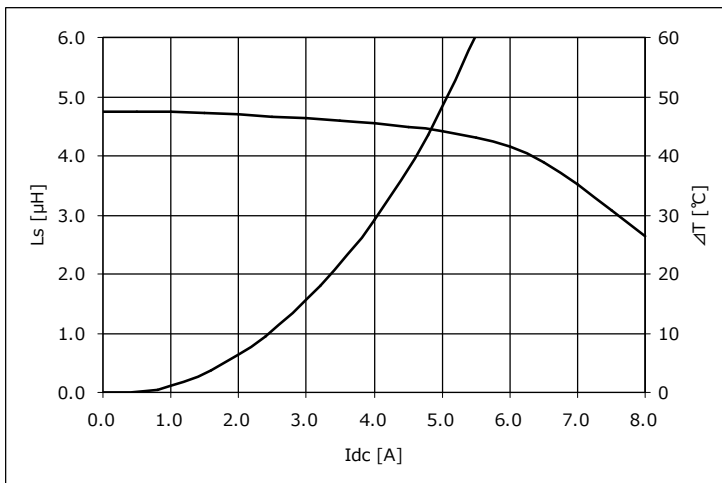
CDRH10D38T150NP-2R2MC



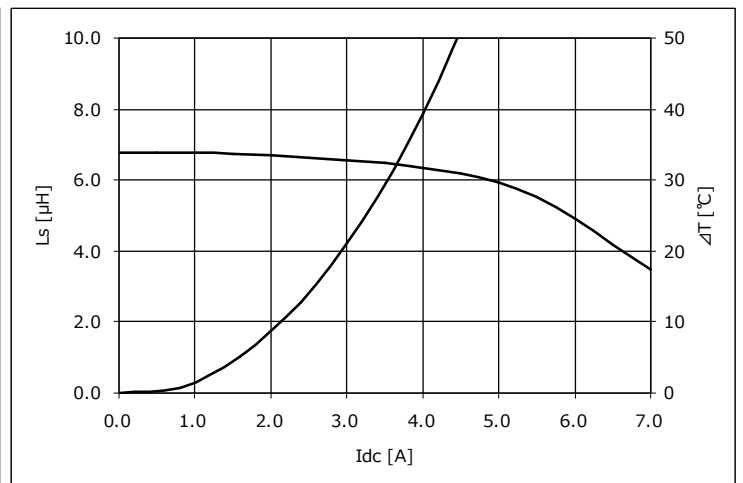
CDRH10D38T150NP-3R0MC



CDRH10D38T150NP-4R7MC

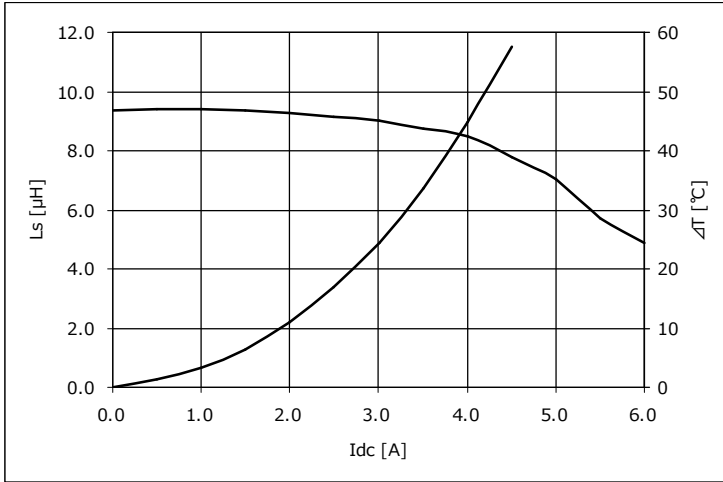


CDRH10D38T150NP-6R8MC

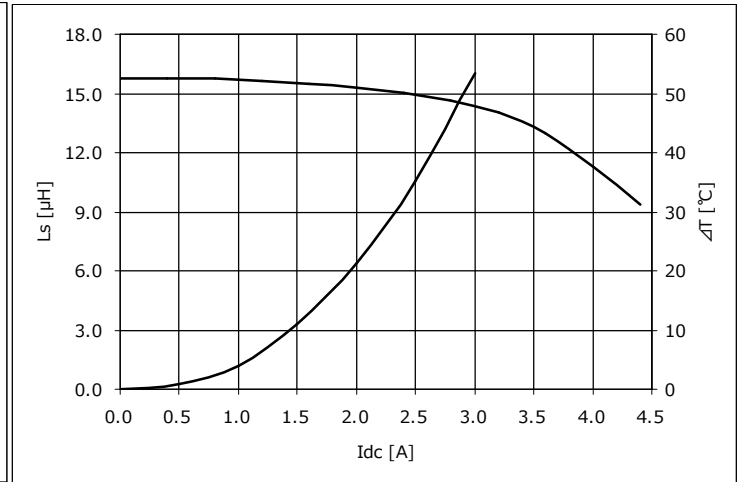


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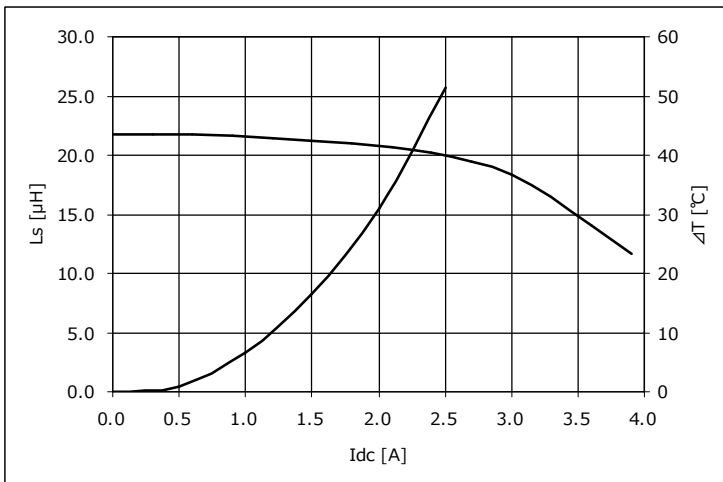
CDRH10D38T150NP-100MC



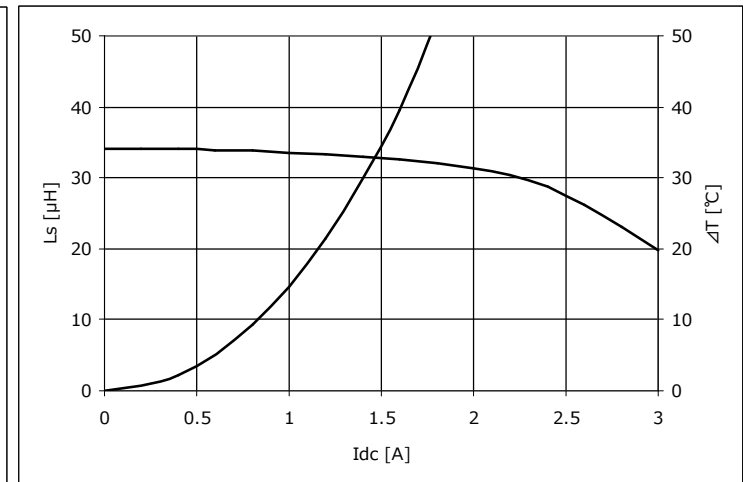
CDRH10D38T150NP-150MC



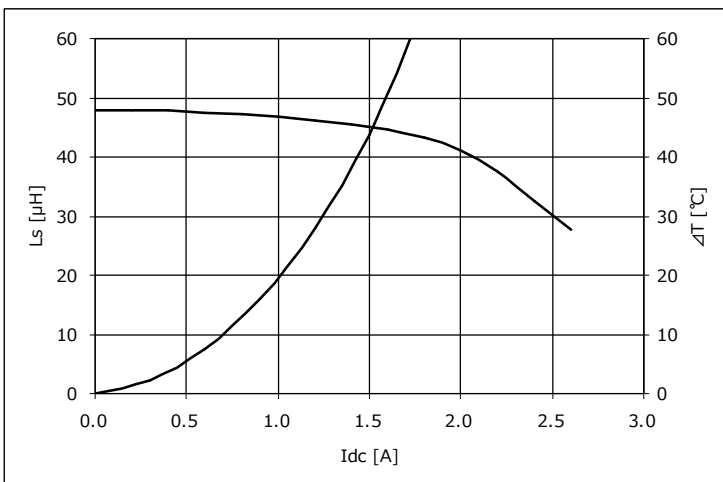
CDRH10D38T150NP-220MC



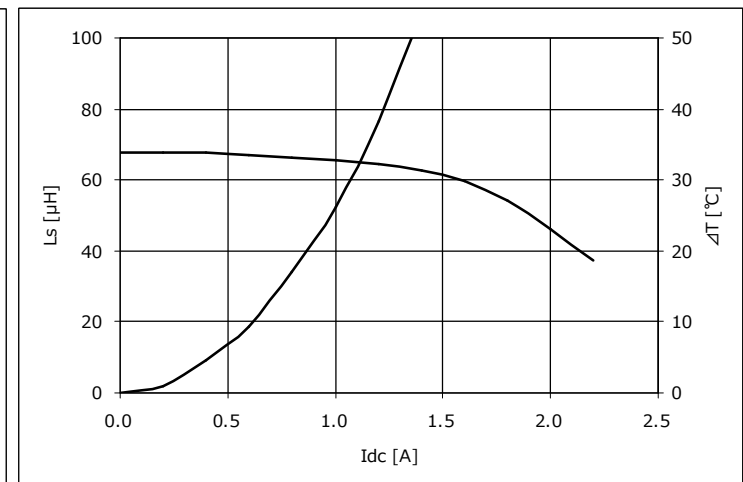
CDRH10D38T150NP-330MC



CDRH10D38T150NP-470MC

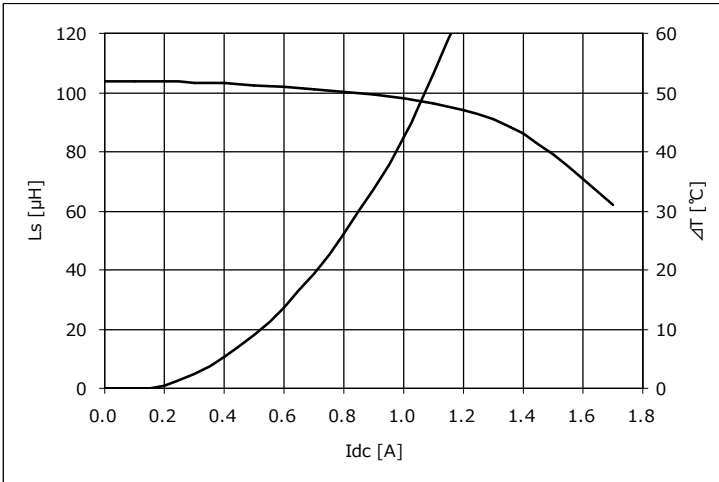


CDRH10D38T150NP-680MC

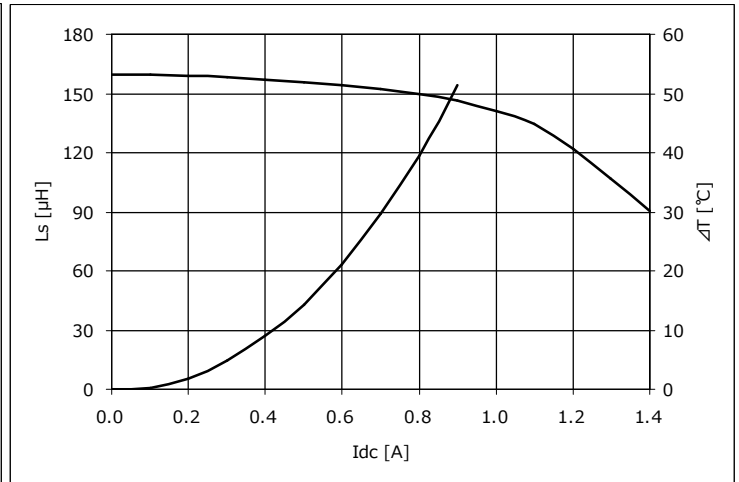


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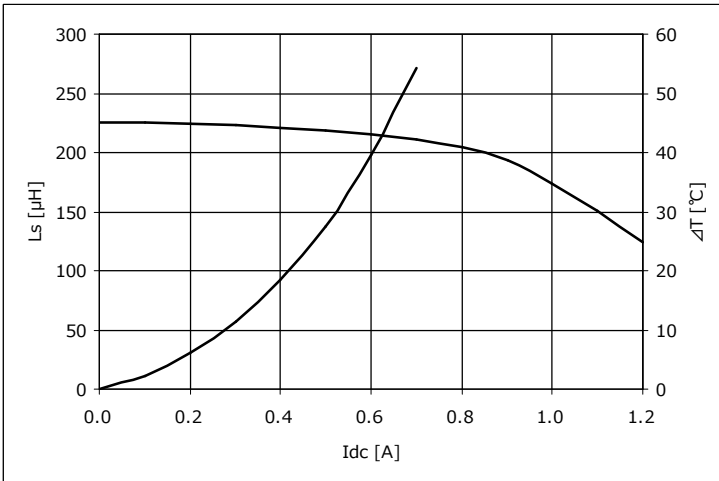
CDRH10D38T150NP-101MC



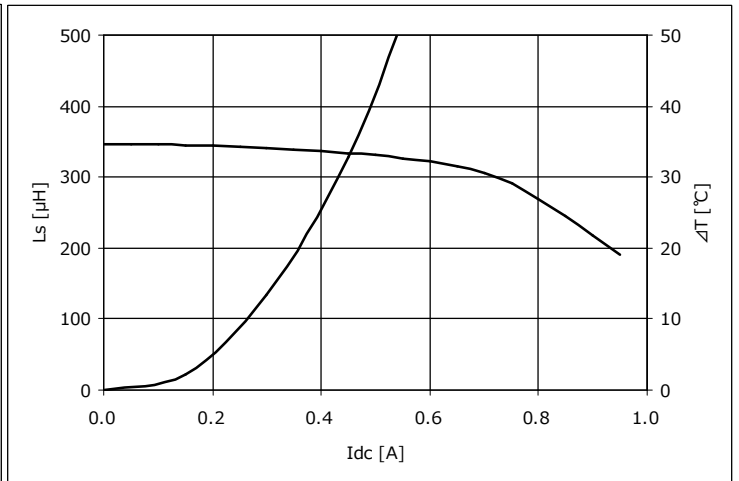
CDRH10D38T150NP-151MC



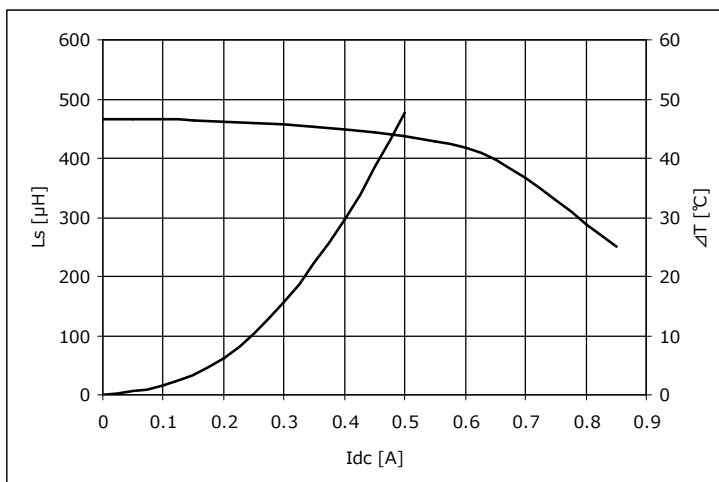
CDRH10D38T150NP-221MC



CDRH10D38T150NP-331MC

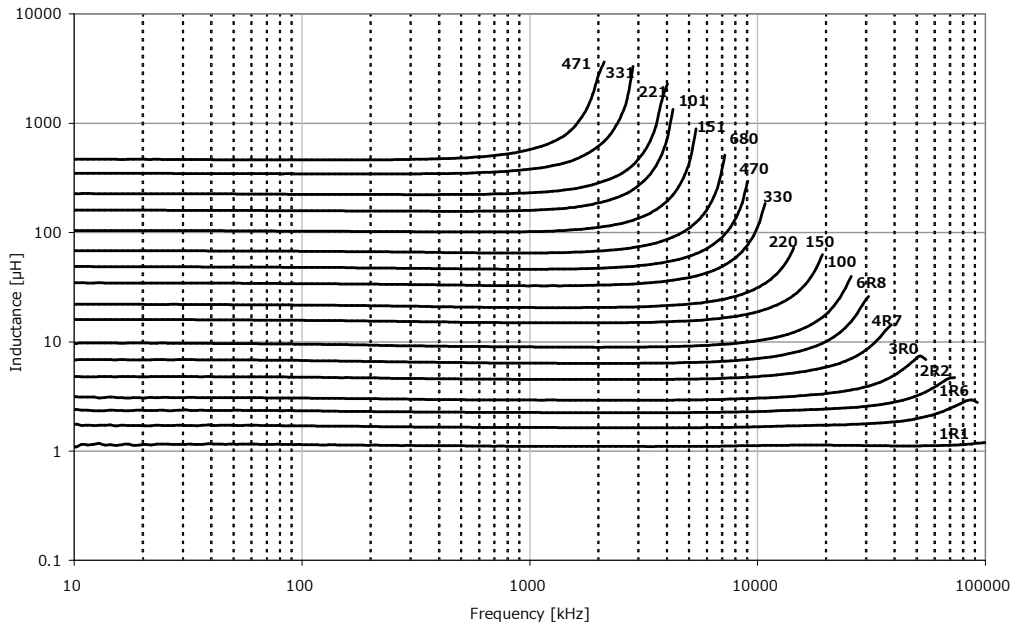


CDRH10D38T150NP-471MC

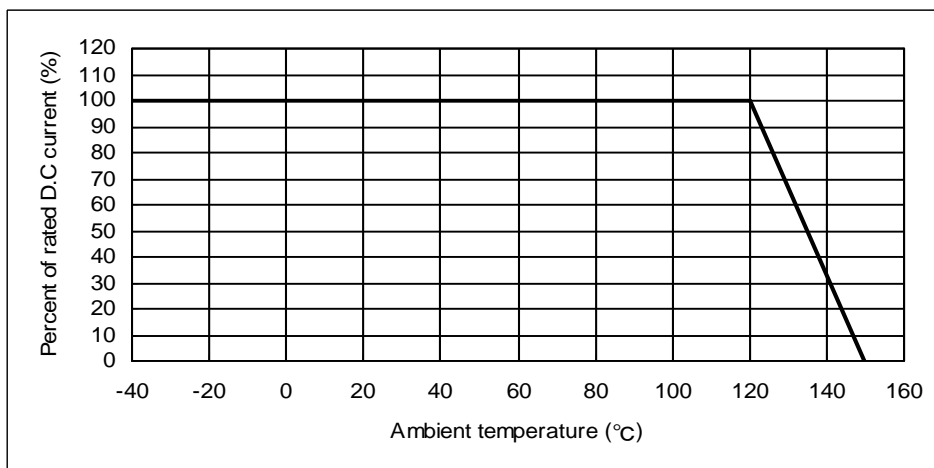


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Inductance vs Frequency Graph



Derating Curve (Temperature Rise Current)



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