

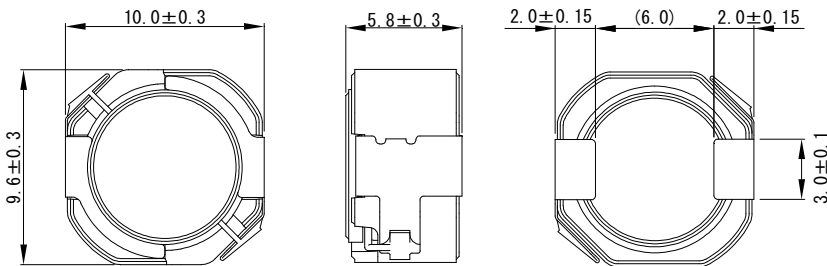
Features

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

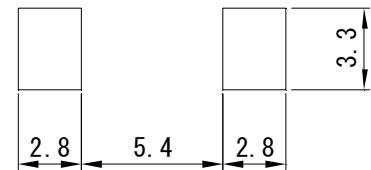
Applications

- 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
CDRH10D58/T150NP-1R2M	1.2	7.5±30%	13.5	7.2
CDRH10D58/T150NP-1R8M	1.8	8.5±30%	11.3	6.0
CDRH10D58/T150NP-2R4M	2.4	10.0±30%	9.6	5.7
CDRH10D58/T150NP-3R3M	3.3	11.0±30%	8.25	5.3
CDRH10D58/T150NP-5R1M	5.1	14.0±30%	6.5	4.75
CDRH10D58/T150NP-6R2M	6.2	16.0±30%	5.6	4.4
CDRH10D58/T150NP-100M	10	20.0±20%	4.65	3.9
CDRH10D58/T150NP-150M	15	35.0±20%	3.75	2.85
CDRH10D58/T150NP-220M	22	50.0±20%	3.2	2.4
CDRH10D58/T150NP-330M	33	85.0±20%	2.5	1.85
CDRH10D58/T150NP-470M	47	100±20%	2.2	1.73
CDRH10D58/T150NP-680M	68	135±20%	1.8	1.42
CDRH10D58/T150NP-101M	100	175±20%	1.45	1.26
CDRH10D58/T150NP-151M	150	270±20%	1.21	0.96
CDRH10D58/T150NP-221M	220	400±20%	0.98	0.80
CDRH10D58/T150NP-331M	330	550±20%	0.81	0.70
CDRH10D58/T150NP-471M	470	835±20%	0.65	0.57

* 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 $\Delta T=30^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) in component body temperature.

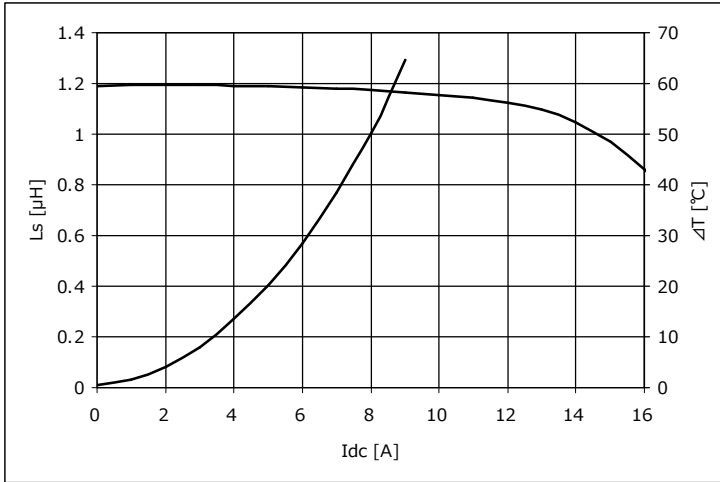
CAUTION: Recommend not to operate with audio-frequency (AF) signals and should be mounted a proper position in the PCB to prevent noises problems which may be caused by magnetostriction.

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.

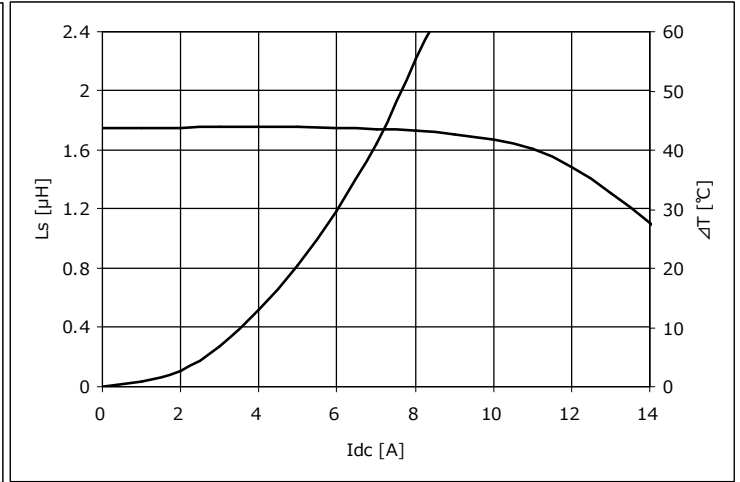
CDRH10D58/T150



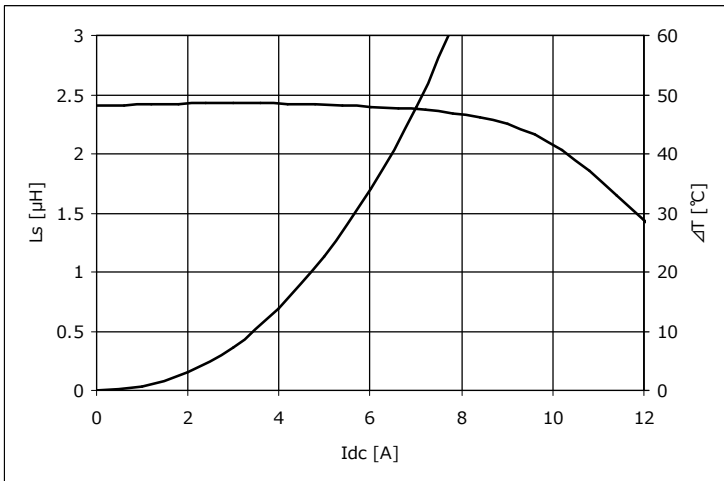
CDRH10D58/T150NP-1R2M



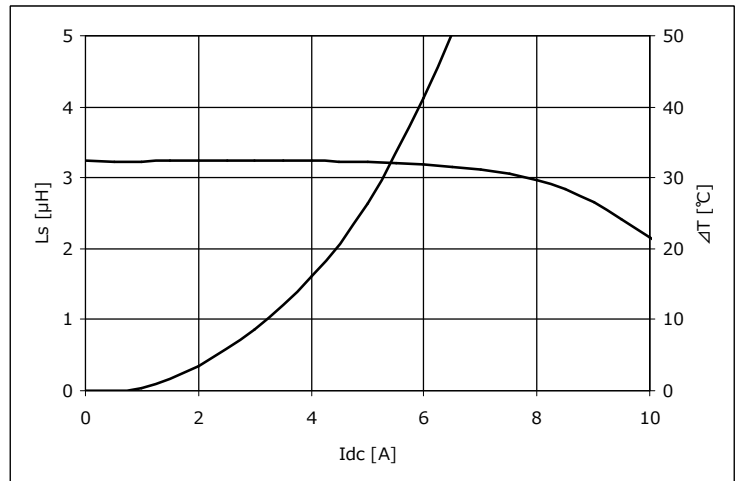
CDRH10D58/T150NP-1R8M



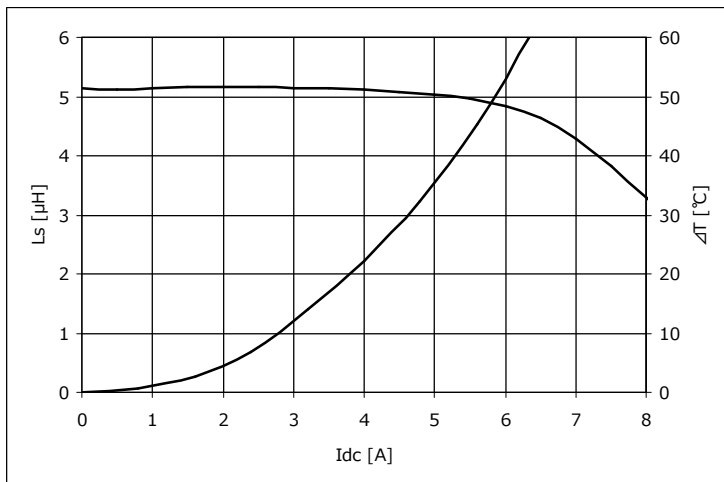
CDRH10D58/T150NP-2R4M



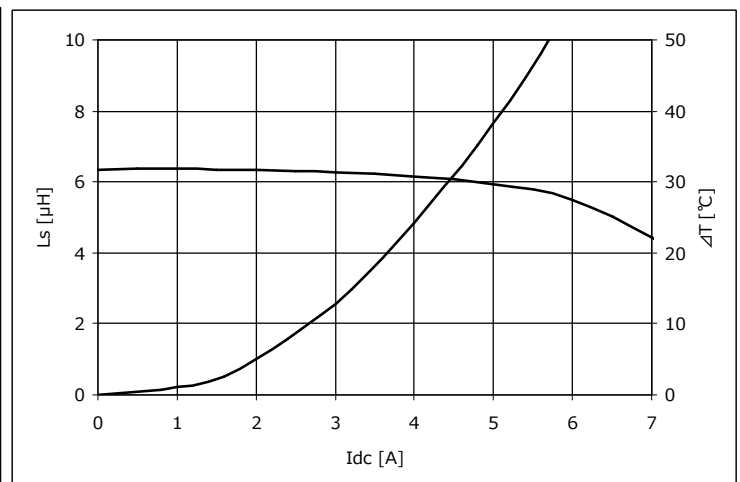
CDRH10D58/T150NP-3R3M



CDRH10D58/T150NP-5R1M



CDRH10D58/T150NP-6R2M

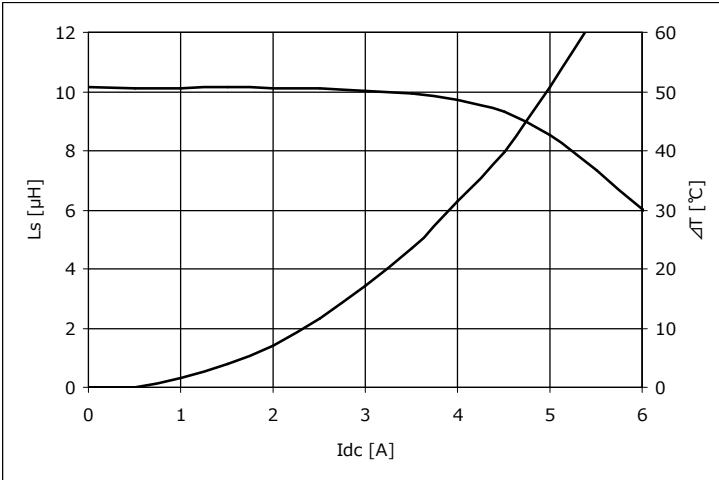


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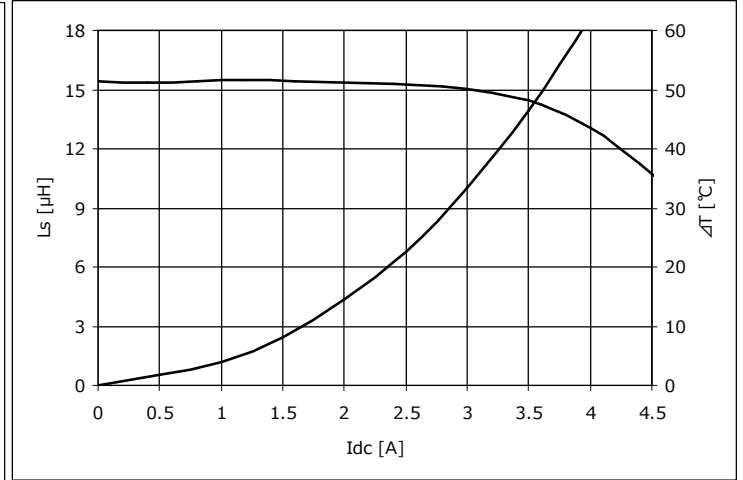
CDRH10D58/T150



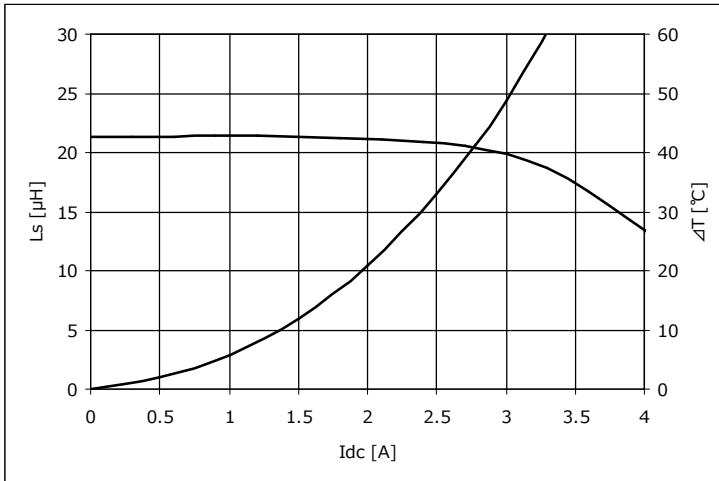
CDRH10D58/T150NP-100M



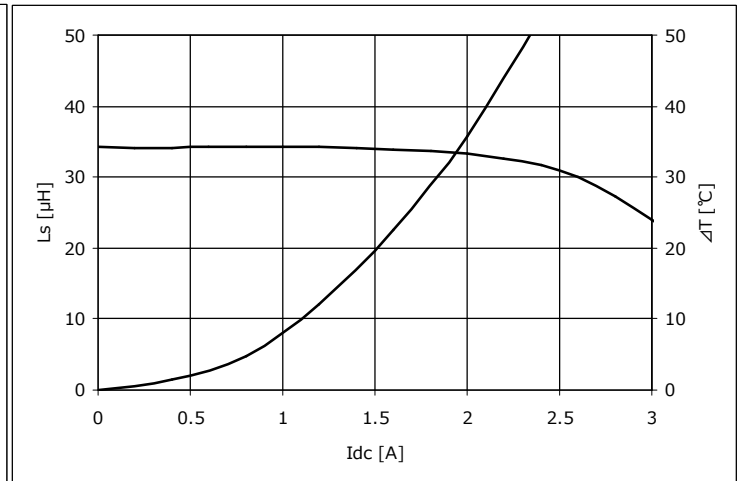
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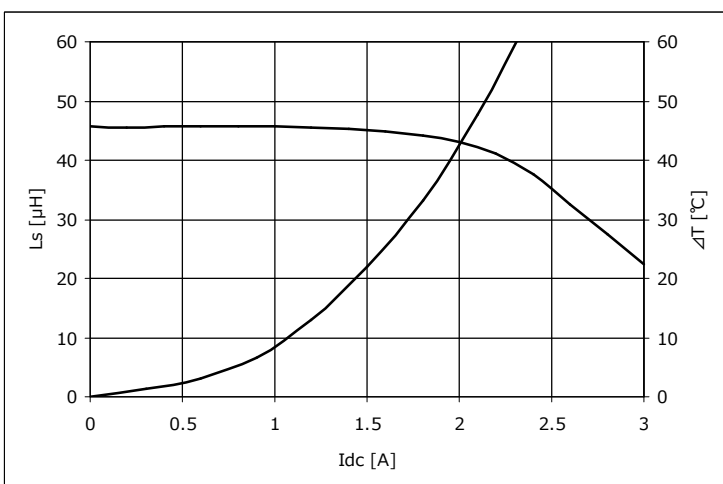
CDRH10D58/T150NP-220M



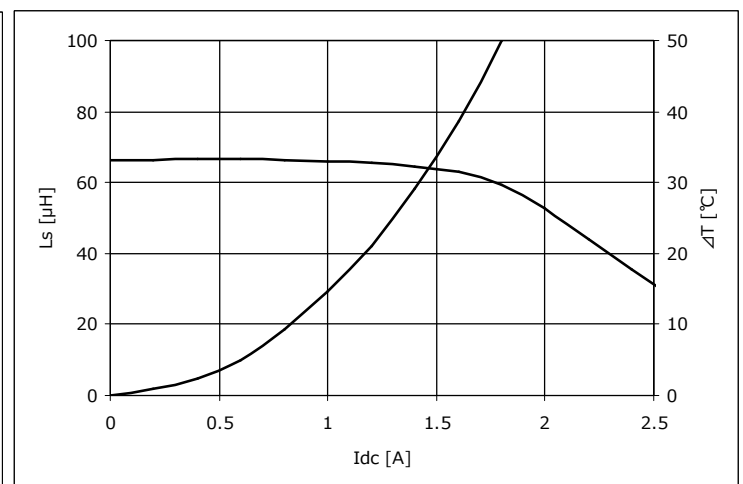
CDRH10D58/T150NP-330M



CDRH10D58/T150NP-470M



CDRH10D58/T150NP-680M

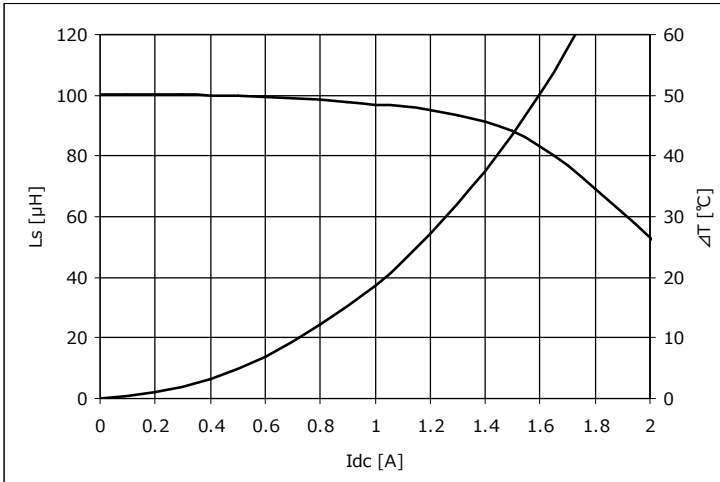


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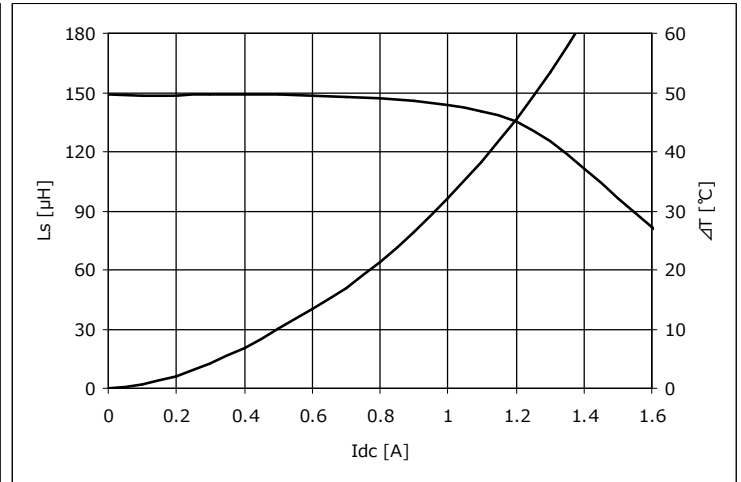
CDRH10D58/T150



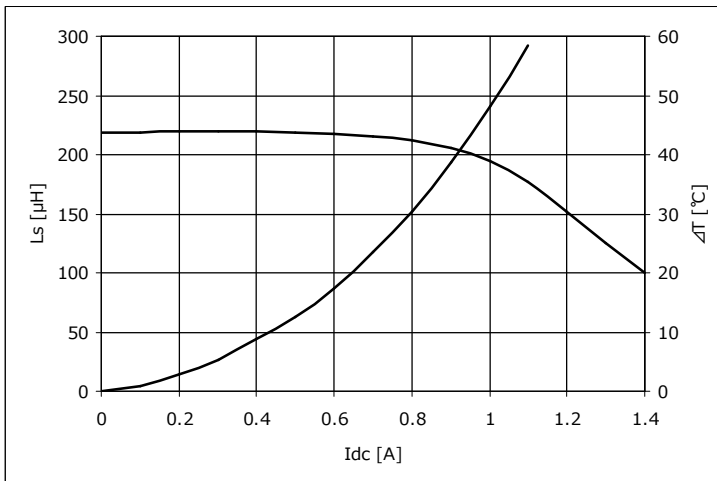
CDRH10D58/T150NP-101M



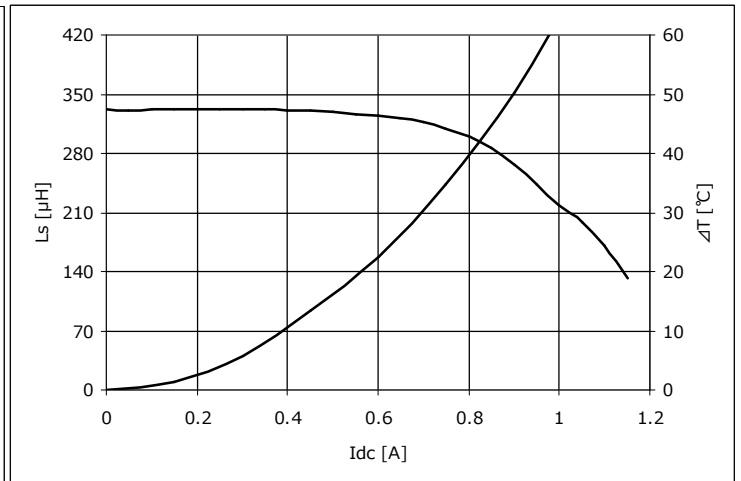
CDRH10D58/T150NP-151M



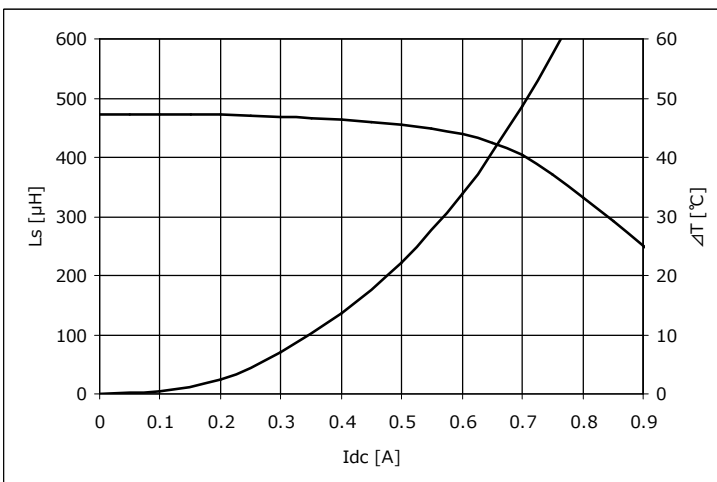
CDRH10D58/T150NP-221M



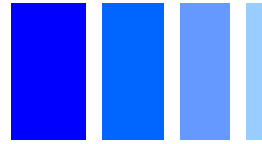
CDRH10D58/T150NP-331M



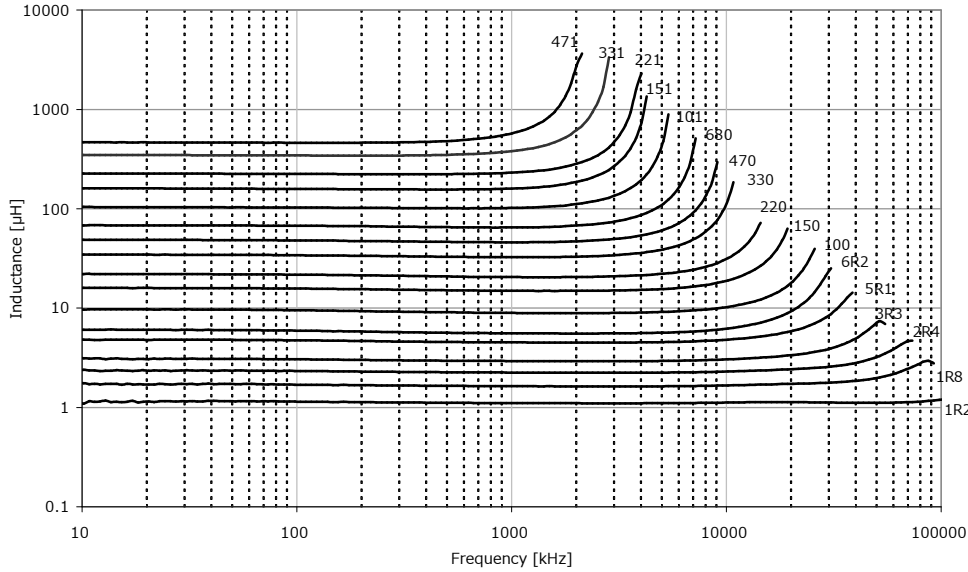
CDRH10D58/T150NP-471M



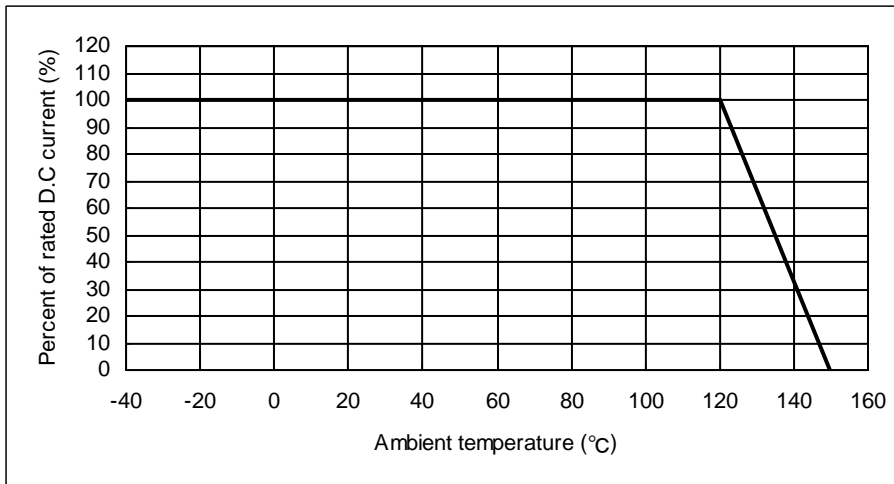
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Inductance vs Frequency Graph



Derating Curve (Temperature Rise Current)



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