

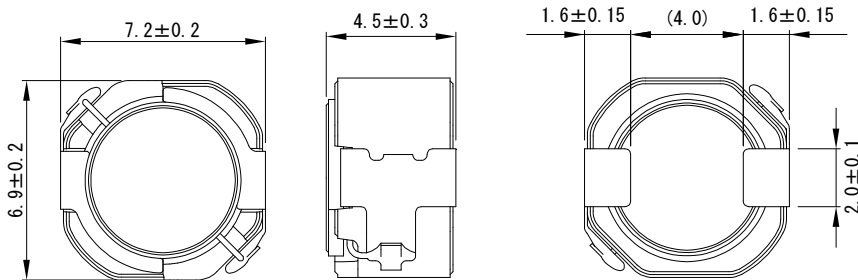
Features

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

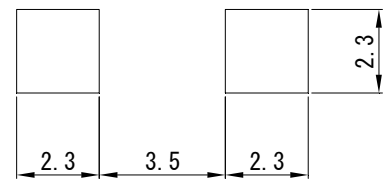
Applications

- 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 |
|-----------------------|-------------------------------|----------------------|--------------------------------------|-------------------------------------|
| CDRH70D45T150NP-1R2MC | 1.2 | 12.2±30% | 9.2 | 4.5 |
| CDRH70D45T150NP-1R5MC | 1.5 | 14.0±30% | 7.8 | 4.2 |
| CDRH70D45T150NP-2R0MC | 2.0 | 15.8±30% | 6.7 | 3.9 |
| CDRH70D45T150NP-3R3MC | 3.3 | 19.5±30% | 5.1 | 3.5 |
| CDRH70D45T150NP-4R7MC | 4.7 | 24±30% | 4.3 | 3.0 |
| CDRH70D45T150NP-6R8MC | 6.8 | 31±30% | 3.6 | 2.5 |
| CDRH70D45T150NP-100MC | 10 | 45±20% | 3.1 | 2.1 |
| CDRH70D45T150NP-150MC | 15 | 77±20% | 2.4 | 1.62 |
| CDRH70D45T150NP-220MC | 22 | 95±20% | 1.95 | 1.40 |
| CDRH70D45T150NP-330MC | 33 | 124±20% | 1.65 | 1.20 |
| CDRH70D45T150NP-470MC | 47 | 190±20% | 1.36 | 0.98 |
| CDRH70D45T150NP-680MC | 68 | 230±20% | 1.16 | 0.92 |
| CDRH70D45T150NP-101MC | 100 | 400±20% | 0.94 | 0.68 |
| CDRH70D45T150NP-151MC | 150 | 665±20% | 0.78 | 0.52 |
| CDRH70D45T150NP-221MC | 220 | 835±20% | 0.68 | 0.44 |
| CDRH70D45T150NP-331MC | 330 | 1150±20% | 0.53 | 0.36 |

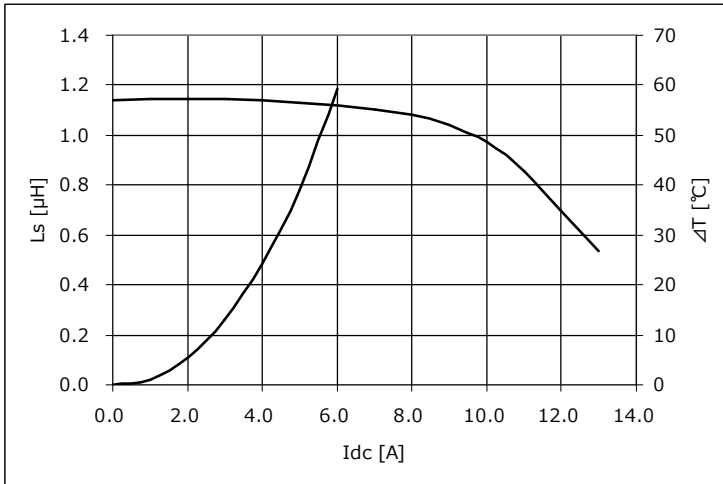
* 1 Inductance Measuring frequency: 100kHz, 1.0V

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

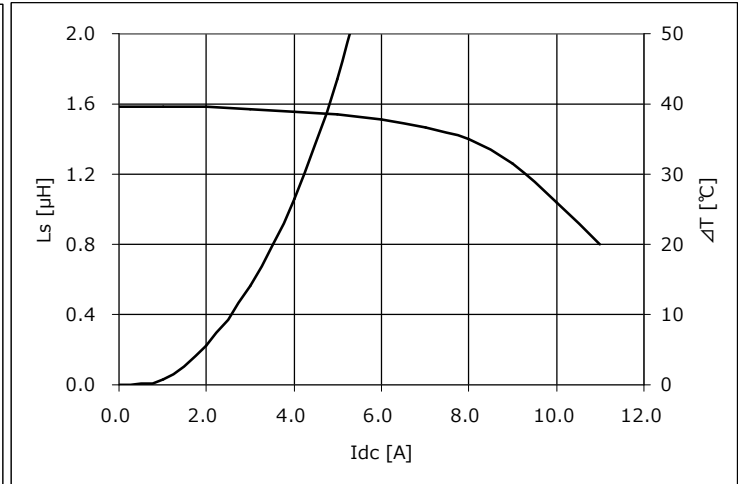
* 3 Temperature rise current : DC current which becomes $\Delta T=30^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) in component body temperature.

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.

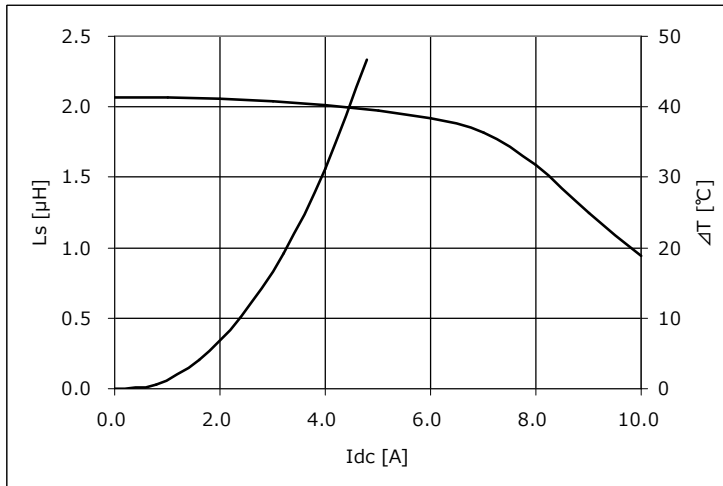
CDRH70D45T150NP-1R2MC



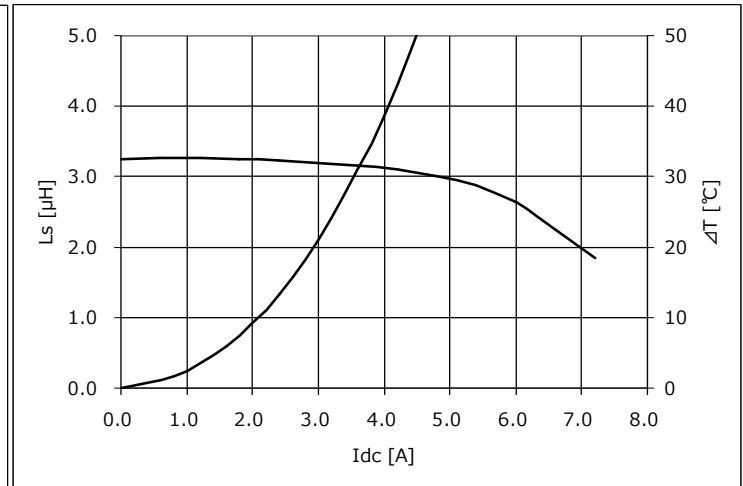
CDRH70D45T150NP-1R5MC



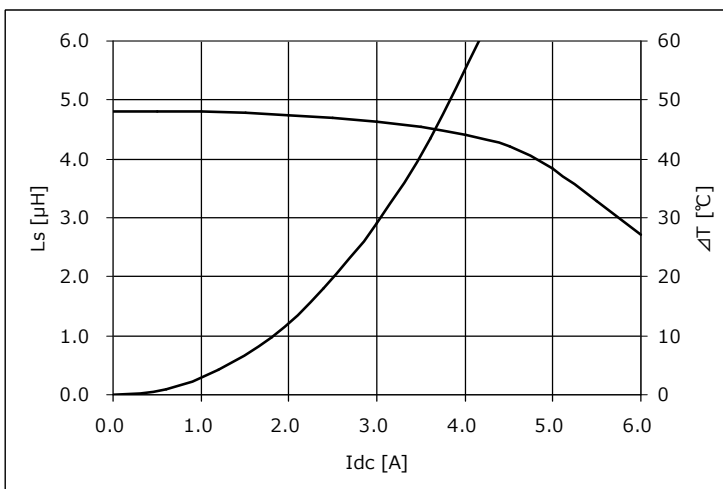
CDRH70D45T150NP-2R0MC



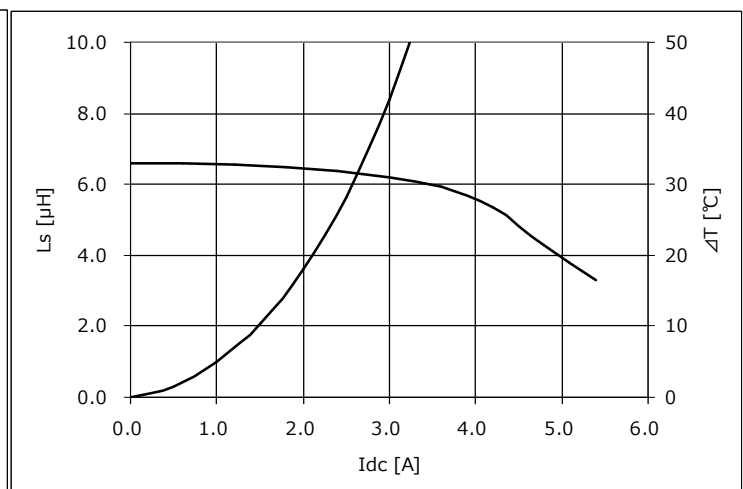
CDRH70D45T150NP-3R3MC



CDRH70D45T150NP-4R7MC

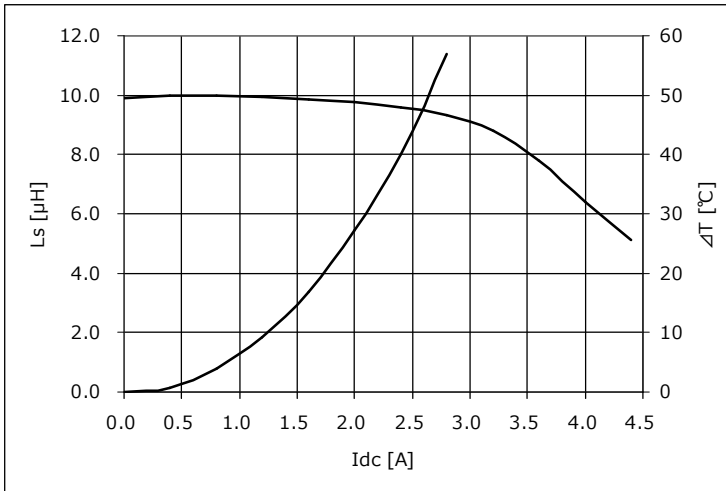


CDRH70D45T150NP-6R8MC

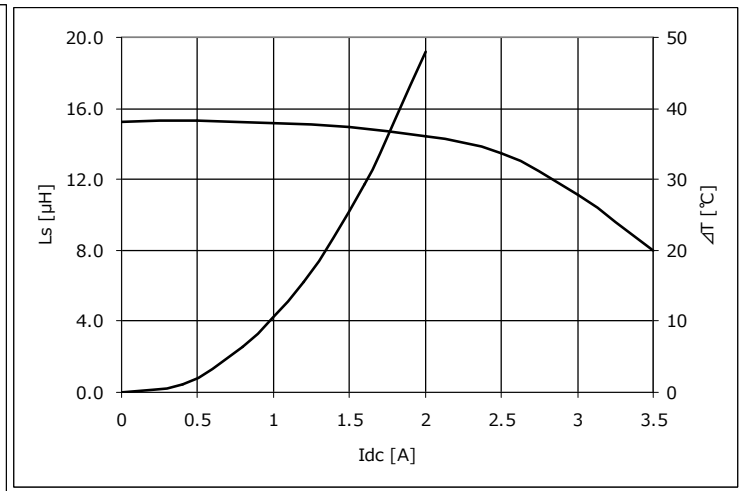


Note: This datasheet might be slightly modified without notice in order to improve the quality and reliability of the product. Please contact an appropriate our sales in your regions for checking final spec before you place an order.

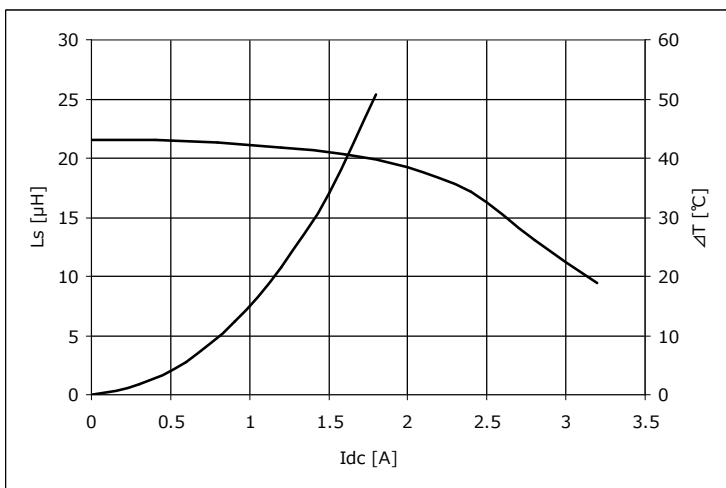
CDRH70D45T150NP-100MC



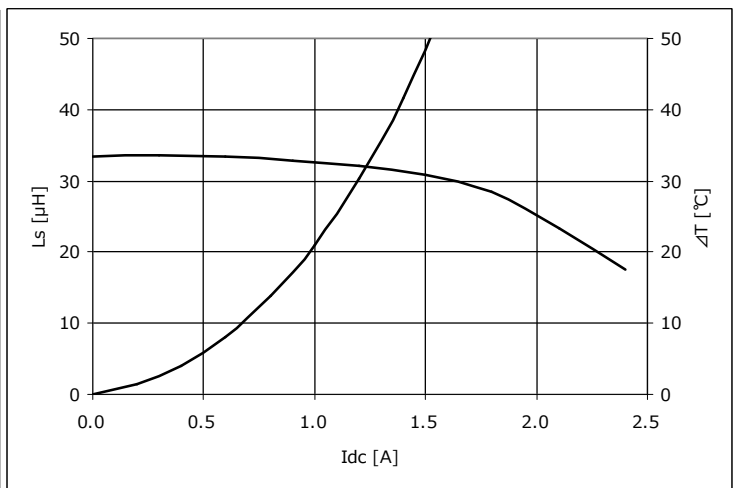
CDRH70D45T150NP-150MC



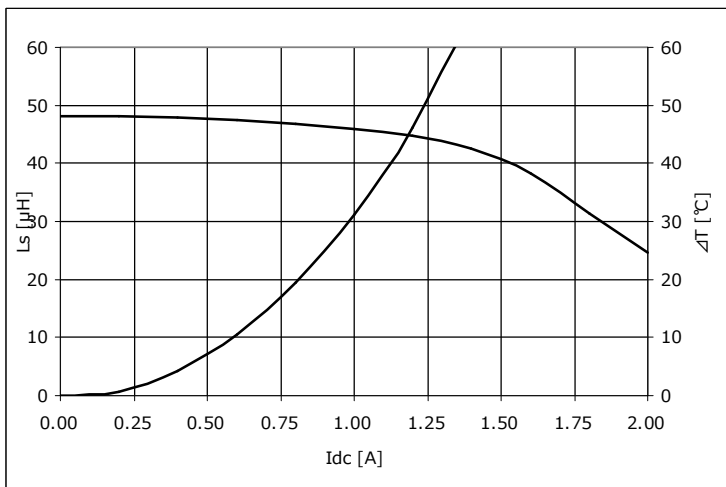
CDRH70D45T150NP-220MC



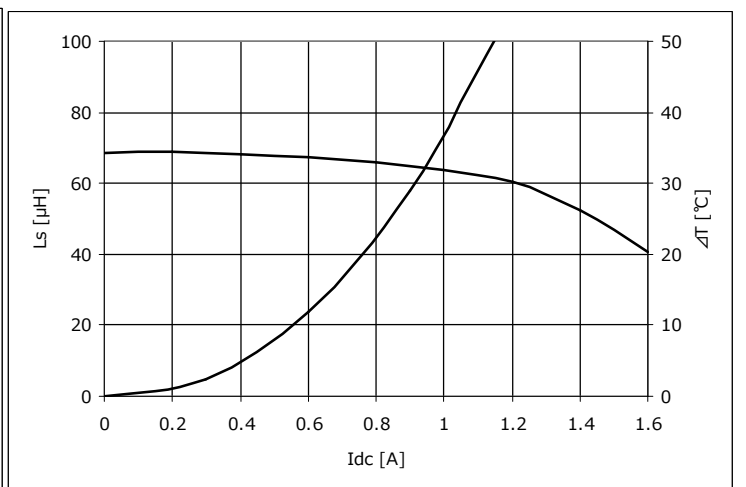
CDRH70D45T150NP-330MC



CDRH70D45T150NP-470MC

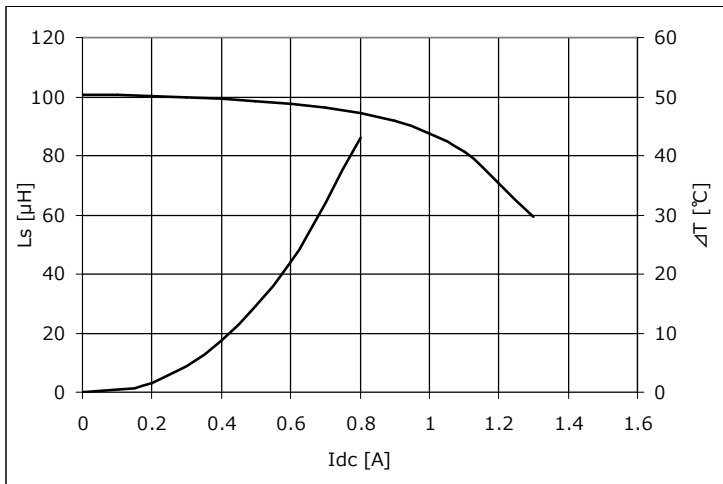


CDRH70D45T150NP-680MC

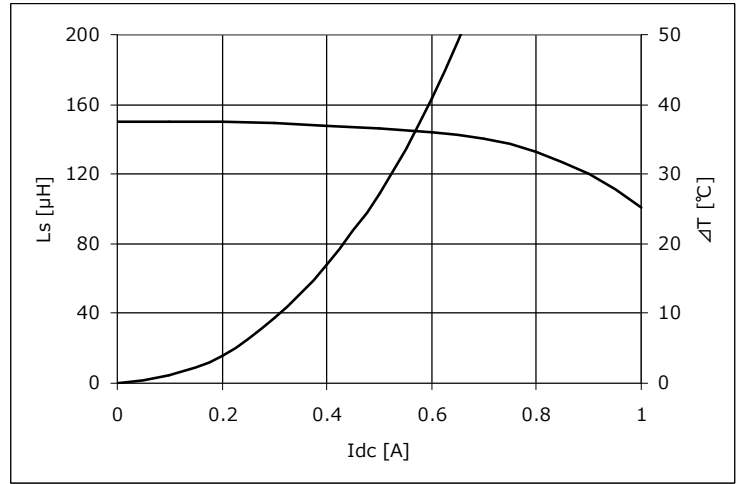


Note: This datasheet might be slightly modified without notice in order to improve the quality and reliability of the product. Please contact an appropriate our sales in your regions for checking final spec before you place an order.

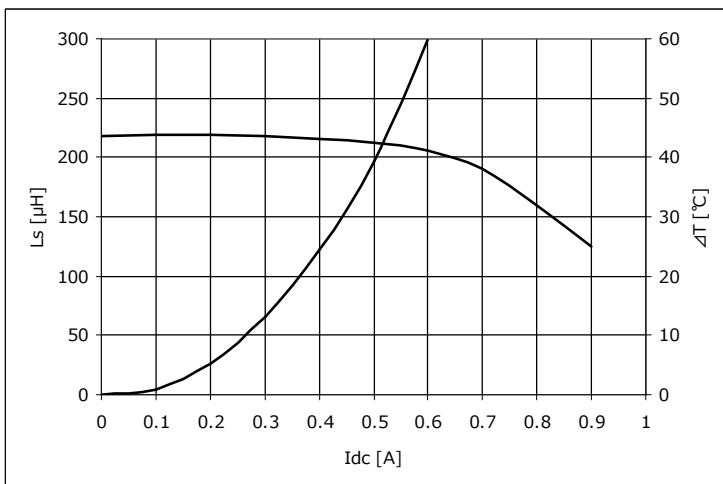
CDRH70D45T150NP-101MC



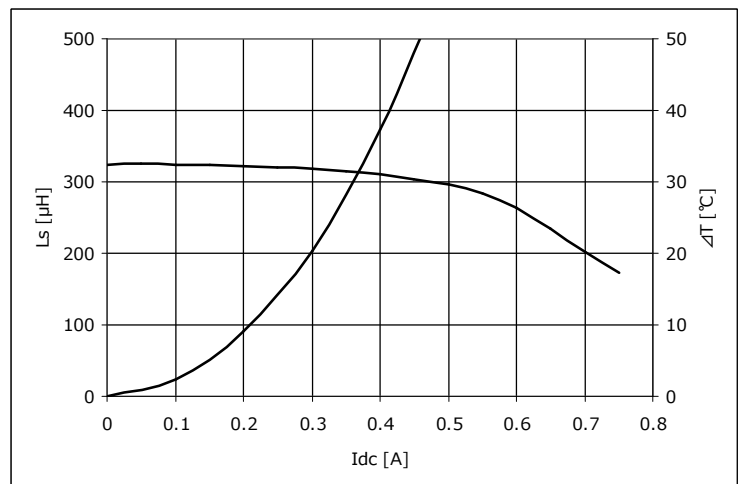
CDRH70D45T150NP-151MC



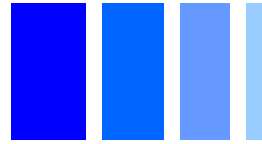
CDRH70D45T150NP-221MC



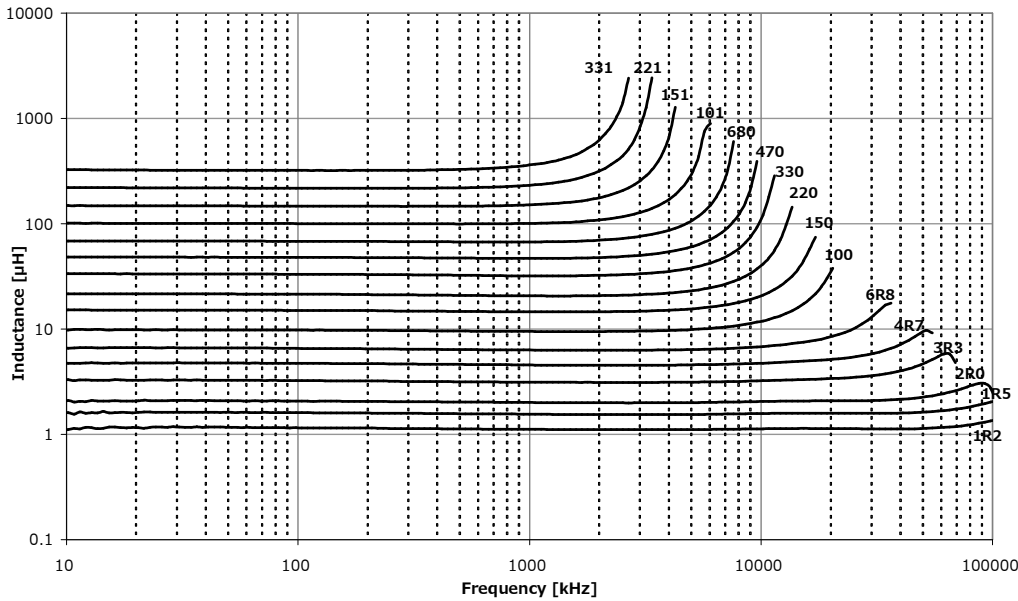
CDRH70D45T150NP-331MC



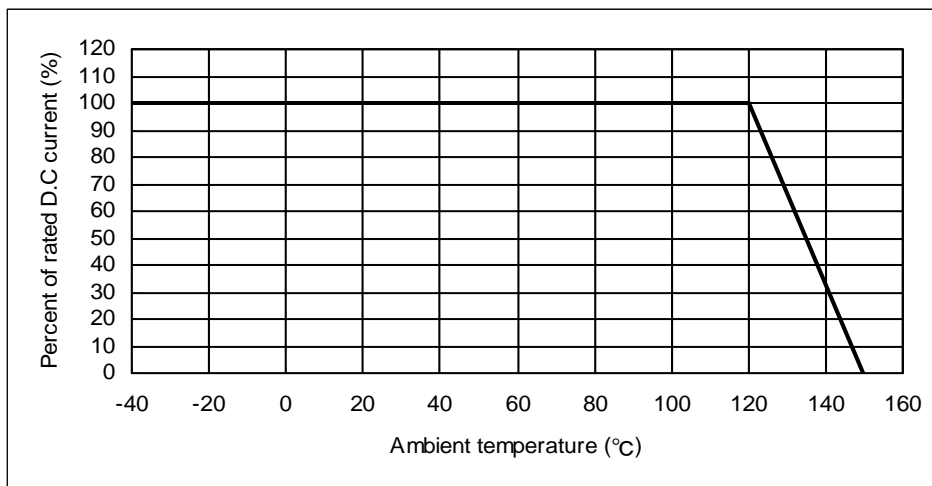
Note: This datasheet might be slightly modified without notice in order to improve the quality and reliability of the product. Please contact an appropriate our sales in your regions for checking final spec before you place an order.



Inductance vs Frequency Graph



Derating Curve (Temperature Rise Current)



Please refer to the sales offices on our website - <http://www.sumida.com>

Hong Kong

Tel.+852-2880-6781

FAX.+852-2565-9600

sales@hk.sumida.com

Saitama (Japan)

Tel.+81-48-691-7303

FAX.+81-48-691-7340

sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700

FAX. +1-847-545-6720

sales@us.sumida.com

Shanghai

Tel.+86-021-5836-3299

FAX.+86-021-5836-3266

shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777

FAX.+82-2-6237-0778

sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0

FAX. +49-8591-937-103

contact@sumida-eu.com

Shenzhen

Tel.+86-755-8291-0228

FAX.+86-755-8291-0338

shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388

FAX.+65-6296-3390

sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110

FAX. +49-9181-4509-310

infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737

FAX.+886-2-8751-2738

sales@tw.sumida.com

San Jose

Tel.+1-408-3219660

FAX.+1-408-321-9308

sales@us.sumida.com

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.