

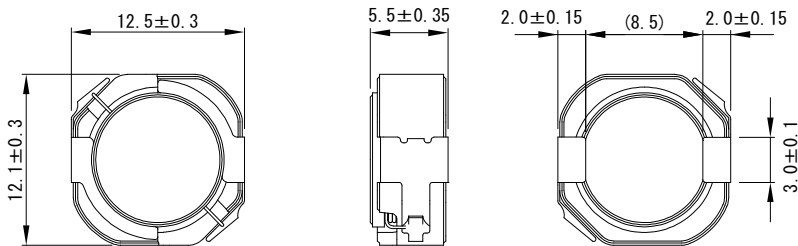
### Features

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

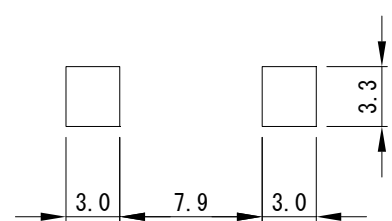
### Applications

- 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
CDRH12D55/T150NP-1R3M	1.3	9.7±30%	21.0	6.0
CDRH12D55/T150NP-2R0M	2.0	11.6±30%	17.5	5.4
CDRH12D55/T150NP-3R3M	3.3	15.4±30%	12.7	4.7
CDRH12D55/T150NP-4R7M	4.7	17.4±30%	11.2	4.3
CDRH12D55/T150NP-6R8M	6.8	21±30%	9.0	3.9
CDRH12D55/T150NP-100M	10	25±20%	7.8	3.6
CDRH12D55/T150NP-150M	15	38±20%	6.2	2.9
CDRH12D55/T150NP-220M	22	49±20%	5.0	2.6
CDRH12D55/T150NP-330M	33	86±20%	4.2	1.85
CDRH12D55/T150NP-470M	47	105±20%	3.5	1.70
CDRH12D55/T150NP-680M	68	165±20%	2.9	1.30
CDRH12D55/T150NP-101M	100	225±20%	2.4	1.15
CDRH12D55/T150NP-151M	150	315±20%	2.0	0.92
CDRH12D55/T150NP-221M	220	490±20%	1.65	0.76
CDRH12D55/T150NP-331M	330	720±20%	1.35	0.65
CDRH12D55/T150NP-471M	470	1015±20%	1.13	0.50

\* 1 Inductance measurig 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.

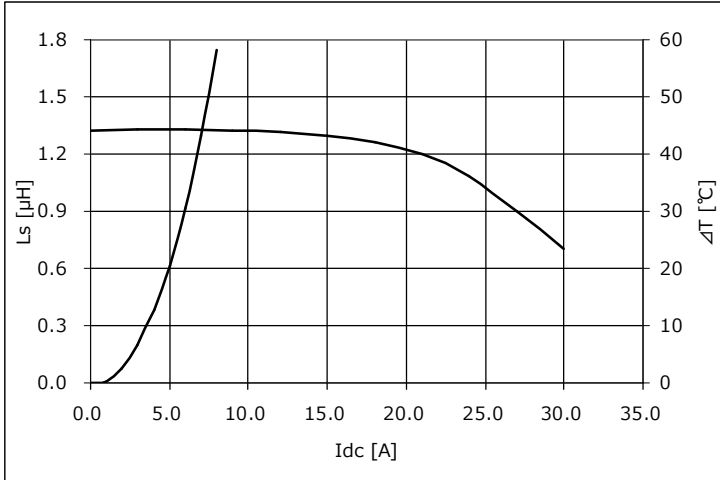
CAUTION: Recommend not to operate with audio-frequency (AF) signals and should be mounted a proper position in the PCB to prevent noises problems which may be caused by magnetostriction.

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.

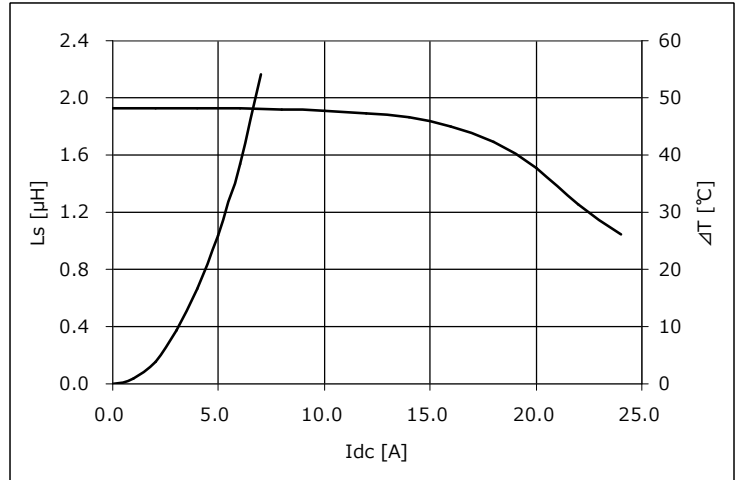
# CDRH12D55/T150



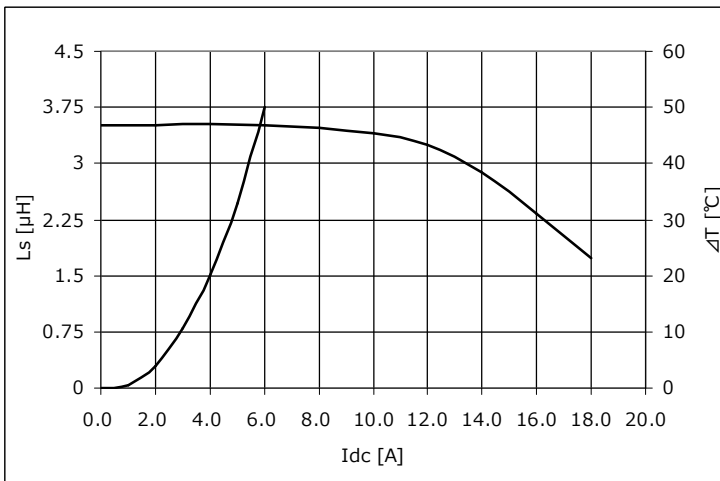
**CDRH12D55/T150NP-1R3M**



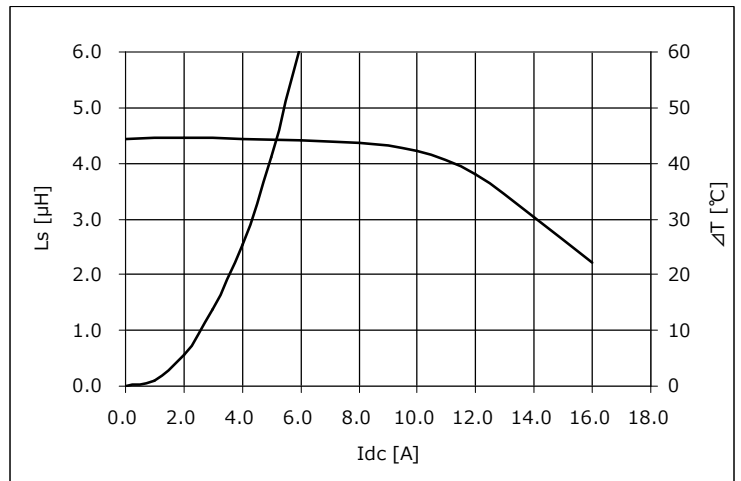
**CDRH12D55/T150NP-2R0M**



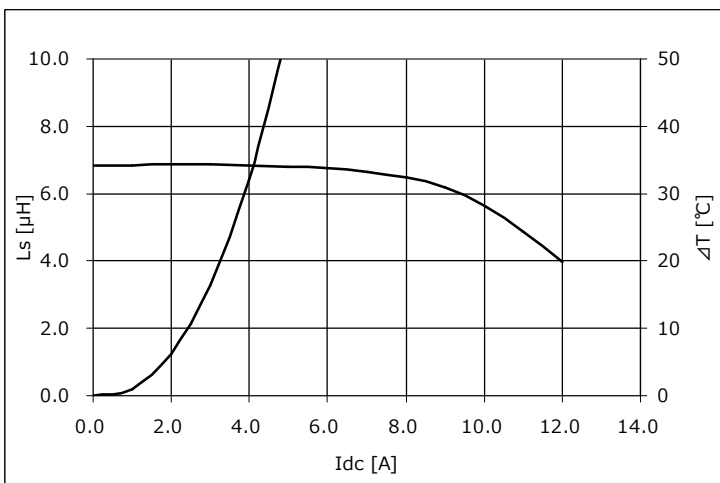
**CDRH12D55/T150NP-3R3M**



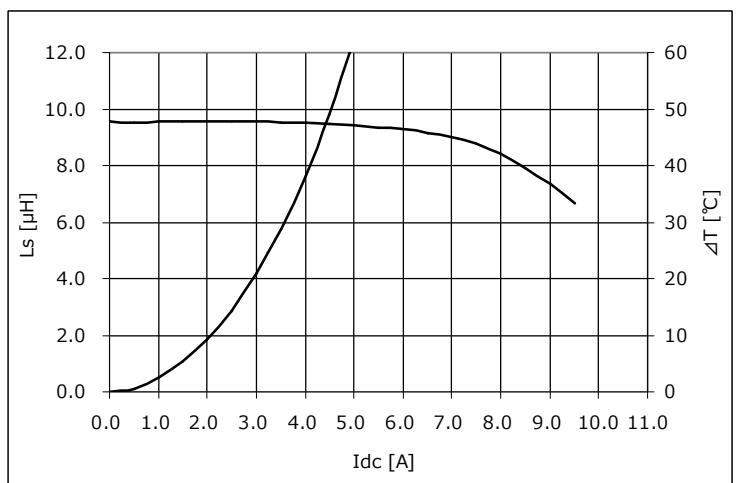
**CDRH12D55/T150NP-4R7M**



**CDRH12D55/T150NP-6R8M**

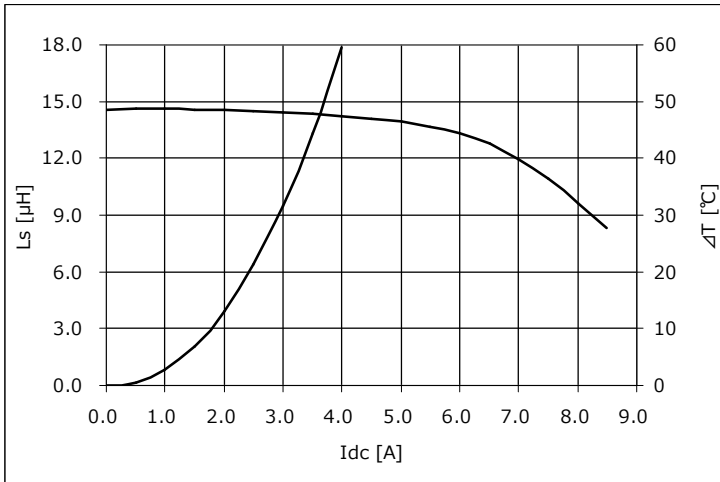


**CDRH12D55/T150NP-100M**

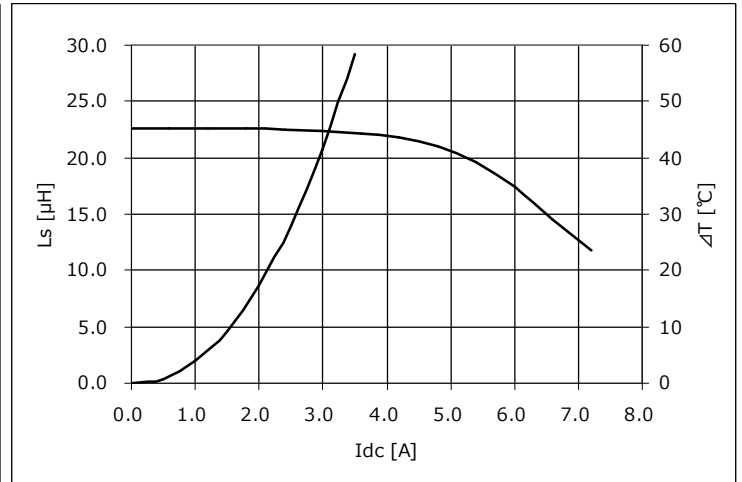


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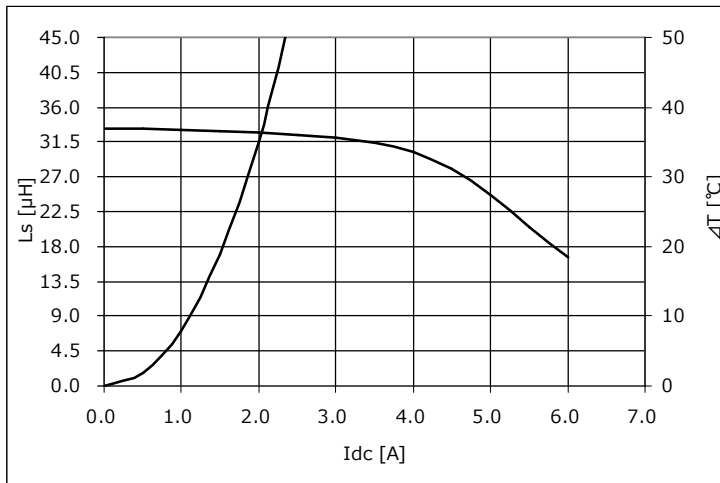
**CDRH12D55/T150NP-150M**



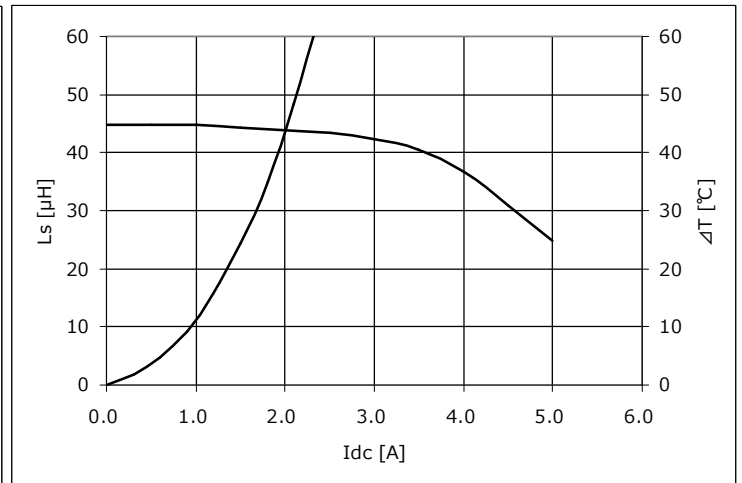
**CDRH12D55/T150NP-220M**



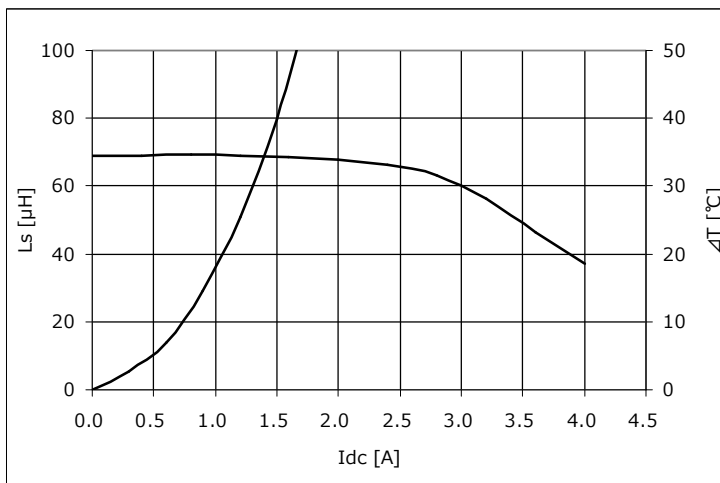
**CDRH12D55/T150NP-330M**



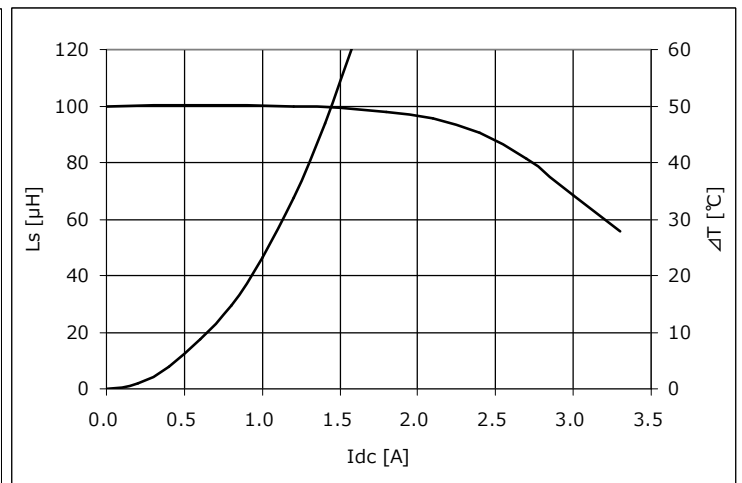
**CDRH12D55/T150NP-470M**



**CDRH12D55/T150NP-680M**

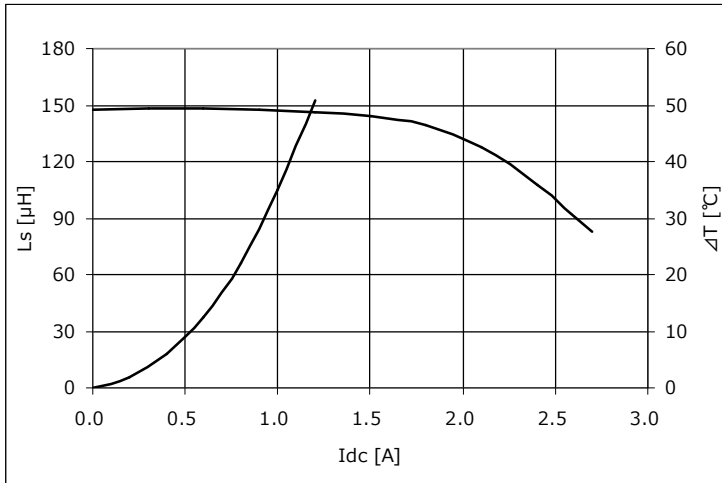


**CDRH12D55/T150NP-101M**

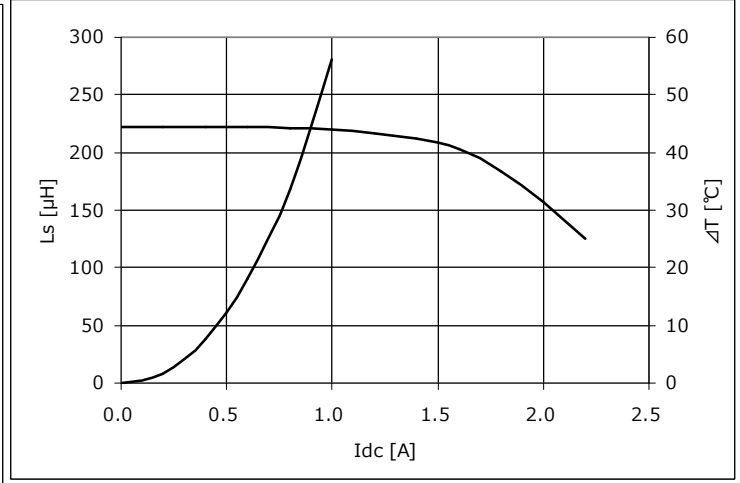


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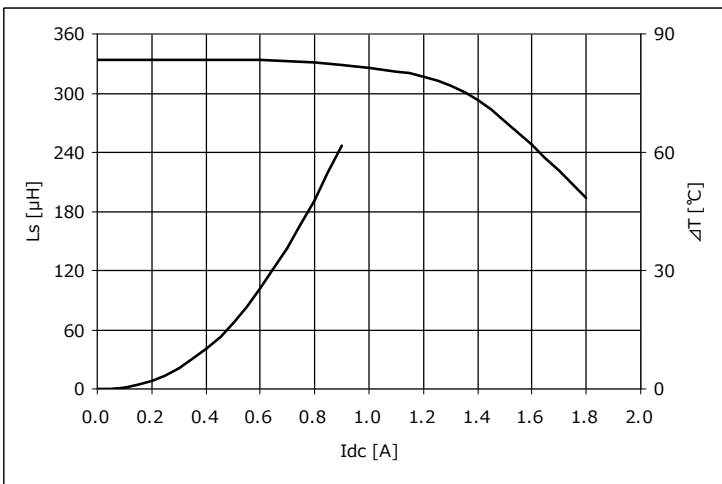
**CDRH12D55/T150NP-151M**



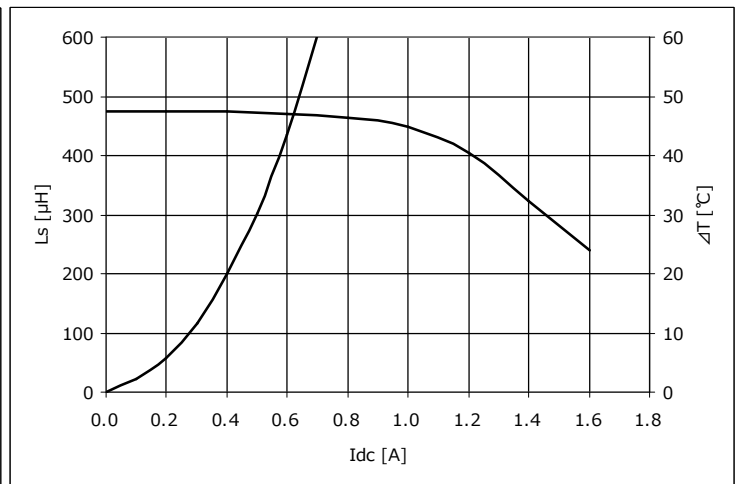
**CDRH12D55/T150NP-221M**



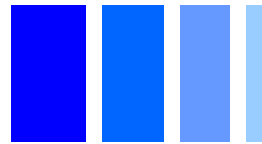
**CDRH12D55/T150NP-331M**



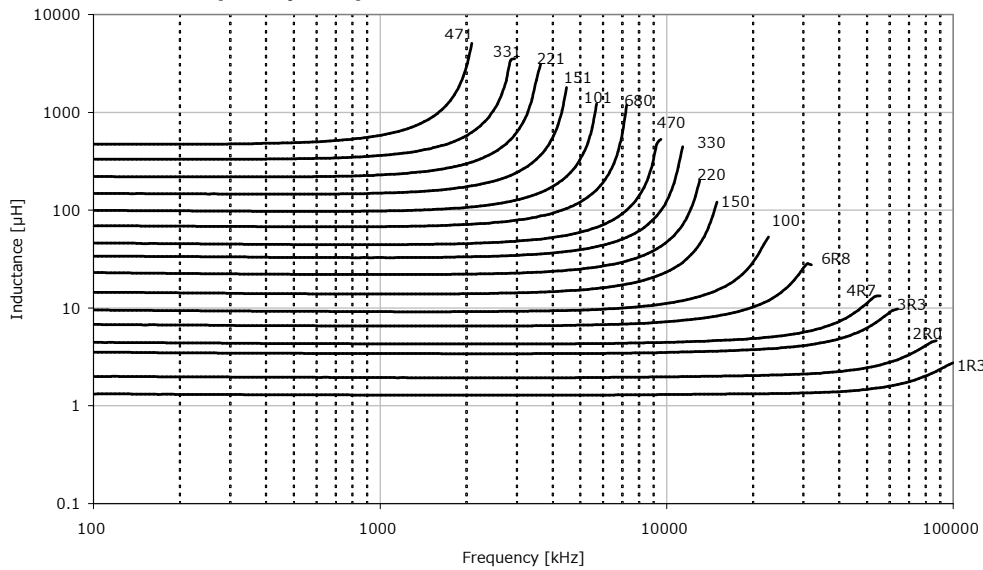
**CDRH12D55/T150NP-471M**



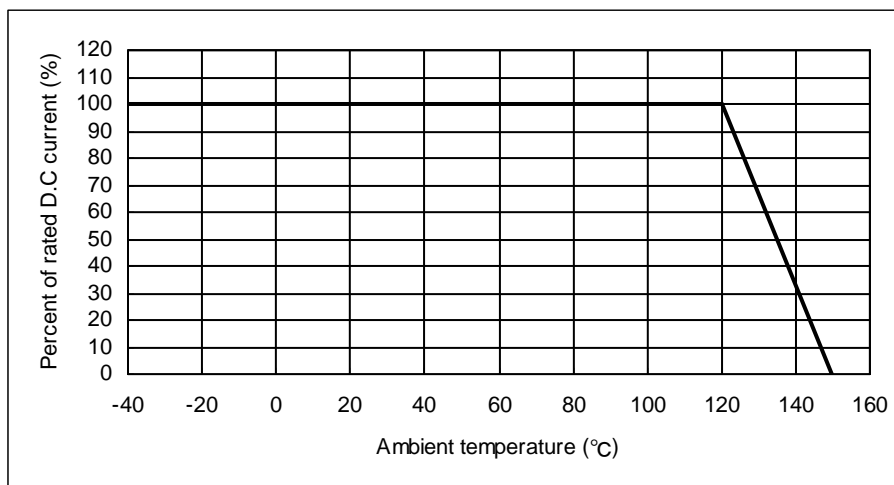
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## Inductance vs Frequency Graph



## Derating Curve (Temperature Rise Current)



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**Hong Kong**  
 Tel.+852-2880-6781  
 FAX.+852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)  
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 FAX.+81-48-691-7340  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)  
**Chicago**  
 Tel.+1-847-545-6700  
 FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

**Shanghai**  
 Tel.+86-021-5836-3299  
 FAX.+86-021-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)  
**Seoul**  
 Tel.+82-2-6237-0777  
 FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)  
**Obernzell**  
 Tel.+49-8591-937-0  
 FAX. +49-8591-937-103  
[contact@sumida-eu.com](mailto:contact@sumida-eu.com)

**Shenzhen**  
 Tel.+86-755-8291-0228  
 FAX.+86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)  
**Singapore**  
 Tel.+65-6296-3388  
 FAX.+65-6296-3390  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)  
**Neumarkt**  
 Tel.+49-9181-4509-110  
 FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

**Taipei**  
 Tel.+886-2-8751-2737  
 FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)  
**San Jose**  
 Tel.+1-408-3219660  
 FAX.+1-408-321-9308  
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