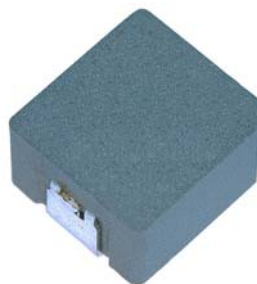
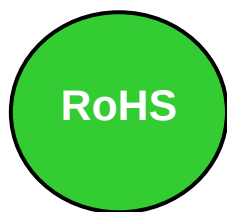
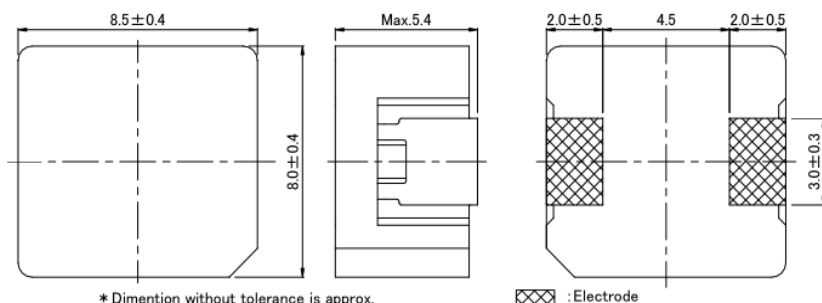
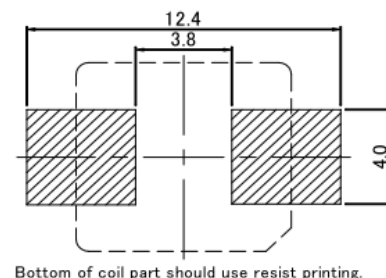


PROVISIONAL**Features**

- Metal compound molding type construction.
- Magnetically shielded.
- Qualified AEC-Q200
- Suitable for Large Current
- Operating temperature range: - 40deg C ~ +150deg C (including coil's self temperature rise)

Applications

- LED Head light for Automobile
- ECU for Airbag, Water and Oil pump etc
- DC/DC converter

Dimension - [mm]**Reference Land pattern- [mm]****Electrical Characteristics**

Part No.	Inductance (μH) (±20%) * 1	D.C.R (mΩ) 20degC (±10%)	Saturation Current (A) * 2			Temperature Rise current (A) * 3
			20degC	110degC	150degC	
CDMC80D50T150NP-1R6M	1.6	6.5	16.7	15.0	14.6	12.7
CDMC80D50T150NP-2R7M	2.7	9.2	14.1	12.6	12.5	11.1
CDMC80D50T150NP-3R3M	3.3	10.6	12.0	10.8	10.6	10.2
CDMC80D50T150NP-4R7M	4.7	13.3	10.9	9.7	9.5	9.2
CDMC80D50T150NP-7R5M	7.5	21.4	8.6	7.7	7.5	7.1
CDMC80D50T150NP-100M	10	30.6	7.3	6.6	6.4	5.8
CDMC80D50T150NP-150M	15	48.2	6.0	5.4	5.3	4.5
CDMC80D50T150NP-220M	22	60.6	5.1	4.6	4.5	4.1
CDMC80D50T150NP-330M	33	98.5	4.3	3.9	3.8	3.2
CDMC80D50T150NP-470M	47	125.4	3.8	3.4	3.4	2.8

* 1 Inductance Measuring frequency: 100kHz, 0.1V

* 2 Saturation current: DC current which becomes inductance value drop down to 30% from nominal value.

* 3 Temperature rise current : DC current which becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) in component body temperature.

Board conditions: FR4, Copper=70μm, four-layer PWB, t=1.6mm

* In order to select the proper inductor for your circuit design, it should be checked the inductor rated current for heat generation in the worst case. Under normal operational condition, it shall not exceed the maximum operating temperature (150 deg C.)

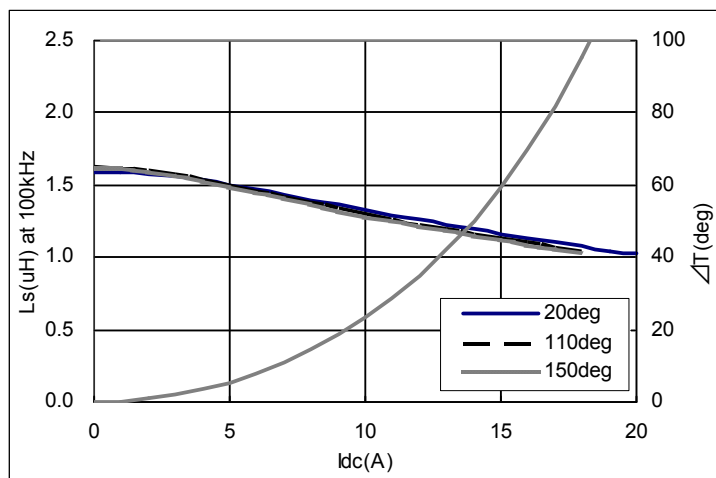
* Allowable current of inductor is either saturation current or temperature rise current, whichever is lower.

* Absolute maximum voltage 40V DC.

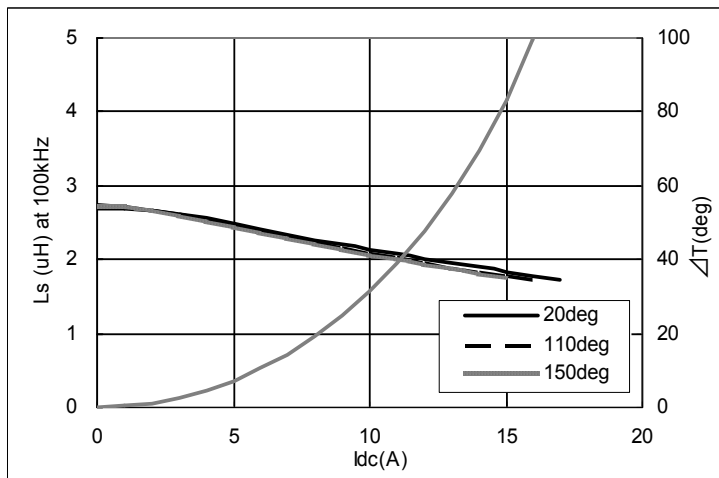
* Take the static electricity measures to prevent deterioration of electric characteristics.

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.

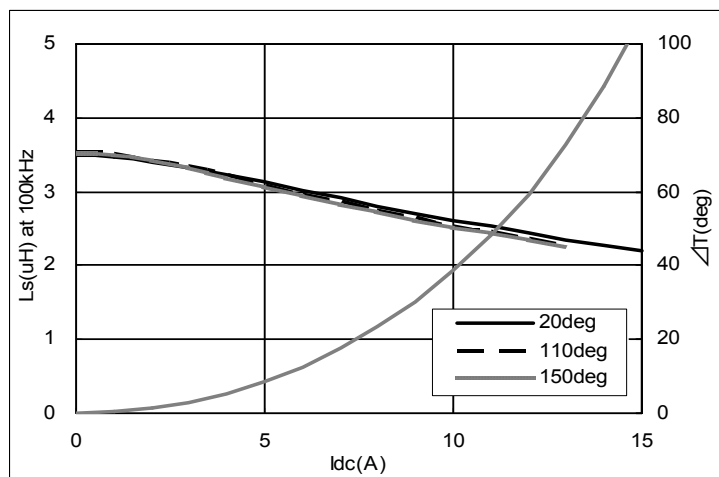
CDMC80D50/T150NP-1R6M



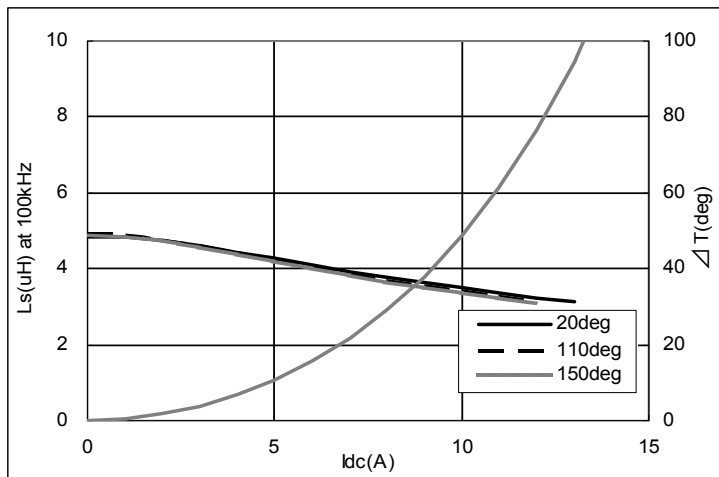
CDMC80D50/T150NP-2R7M



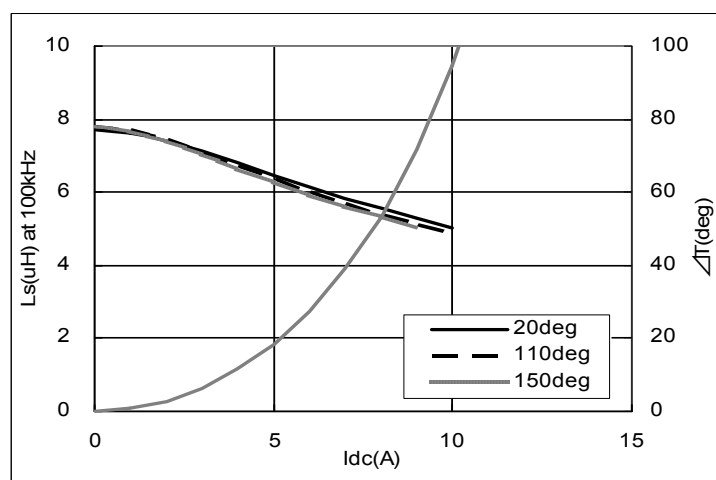
CDMC80D50/T150NP-3R3M



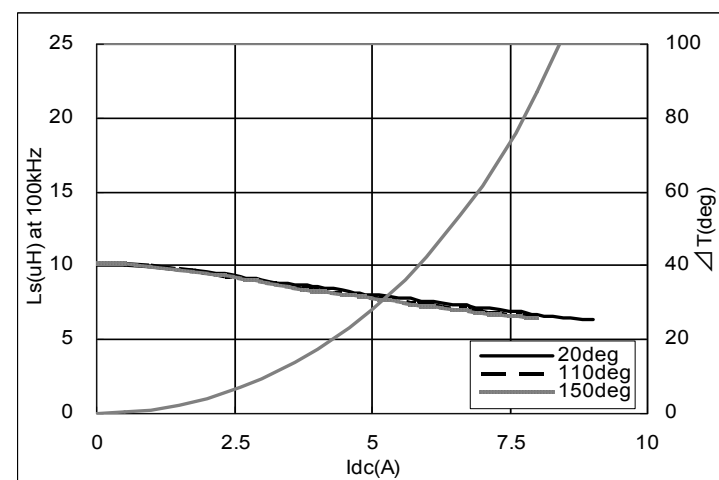
CDMC80D50/T150NP-4R7M



CDMC80D50/T150NP-7R5M

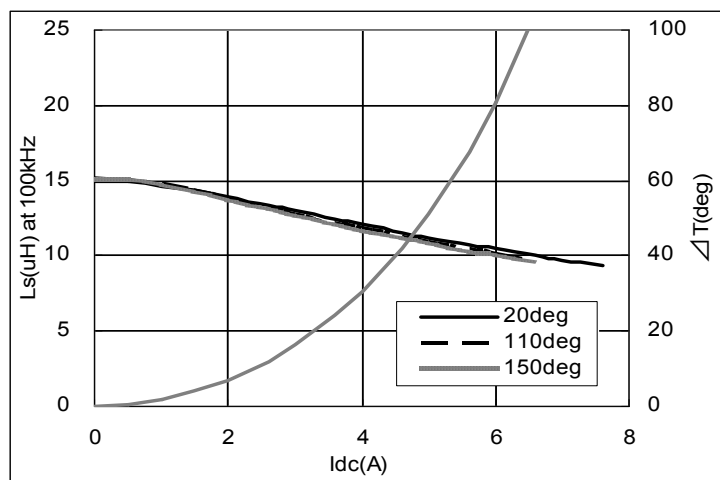


CDMC80D50/T150NP-100M

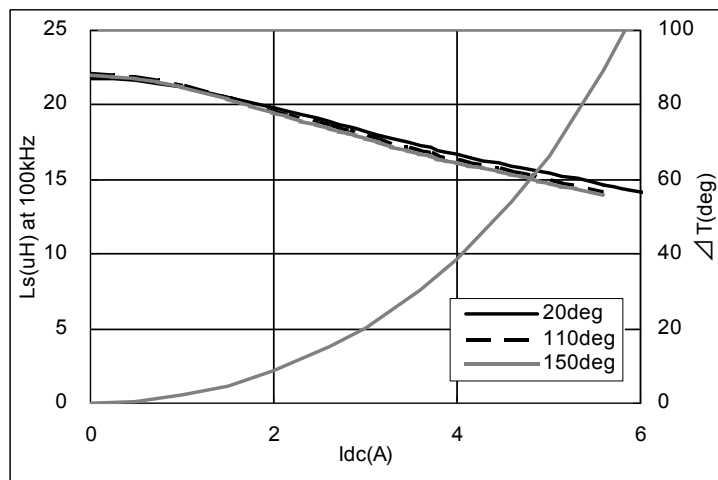


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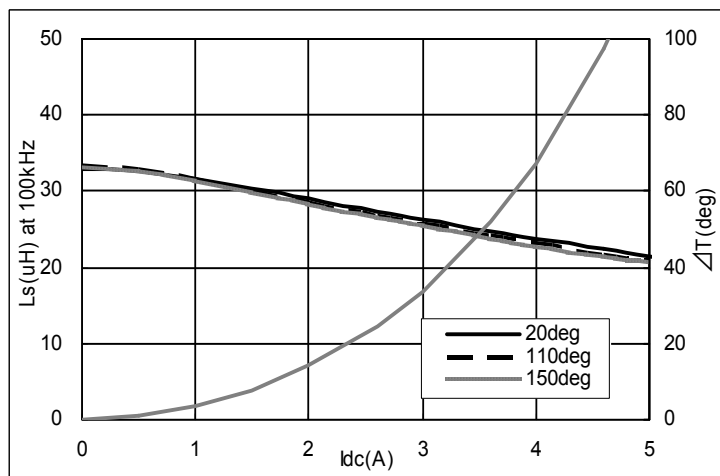
CDMC80D50/T150NP-150M



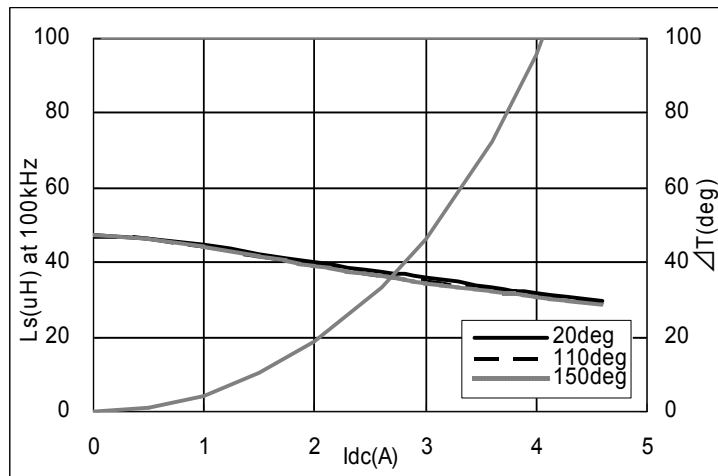
CDMC80D50/T150NP-220M



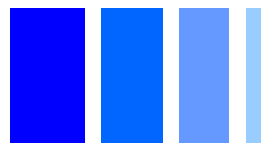
CDMC80D50/T150NP-330M



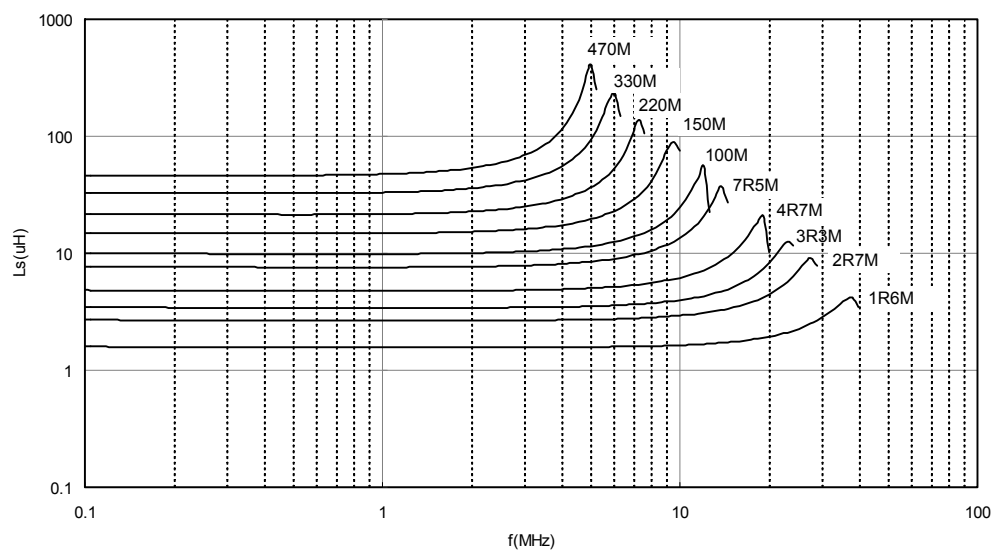
CDMC80D50/T150NP-470M



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Inductance vs Frequency Graph



Derating Curve

