

CDK5838G

NEW

AEC-Q200



■ Features

- Optimized for AI, data server, and edge computing applications.
- Compact Power Inductor for Automotive-Equipment and AI Applications
- Support High-currents, Low DC resistance
- The special terminal structure having excellent shock resistance and vibration resistance
- The temperature dependence of the saturation current is extremely low.
- Operating temperature : $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$ (The self-heating is included)
- AEC-Q200 compliant

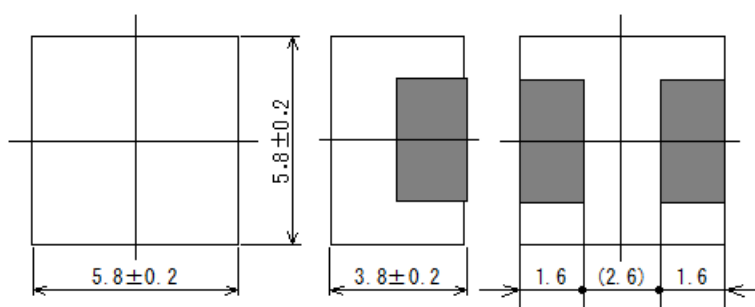
Magnetic structure :

Mold

Weight : 0.9 g

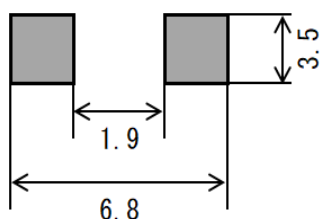
■ Applications

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
<https://www.sagami-elec.co.jp>

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 Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
 Engineering Dept. TEL : +81 45 521 4543

⚠ The contents of this catalogue are subject to change without notice.

■ Specifications

SAGAMI Part No.	Inductance (nH)	DCR max. (mΩ)	DC Saturation Allowable (A)	Temperature Rise Allowable Current (A)
CDK5838G-60NM	60±20%	0.300	103.1	82.6
CDK5838G-85NM	85±20%	0.300	70.0	82.6
CDK5838G-R12M	120±20%	0.300	51.4	82.6

Inductance Measuring Condition:100kHz,1V

DC saturation allowable current:The current value which inductance decrease 30% from the initial value

Temperature rise allowable current:The rise in temperature of core surface is 40℃



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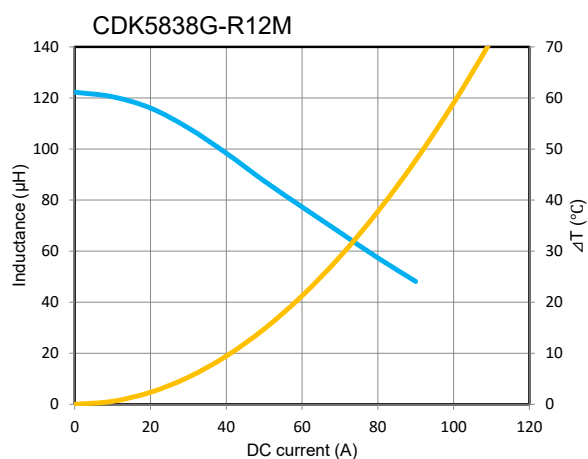
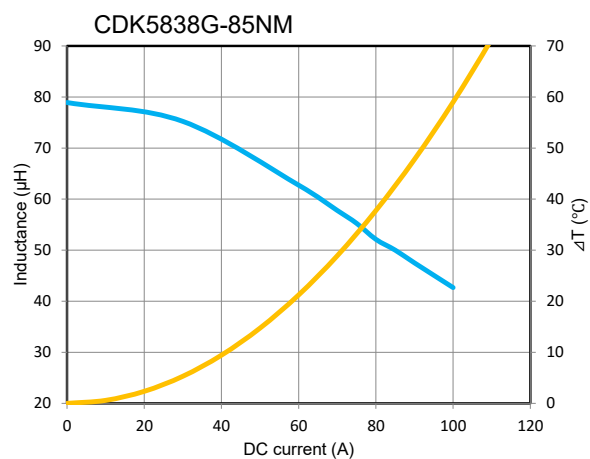
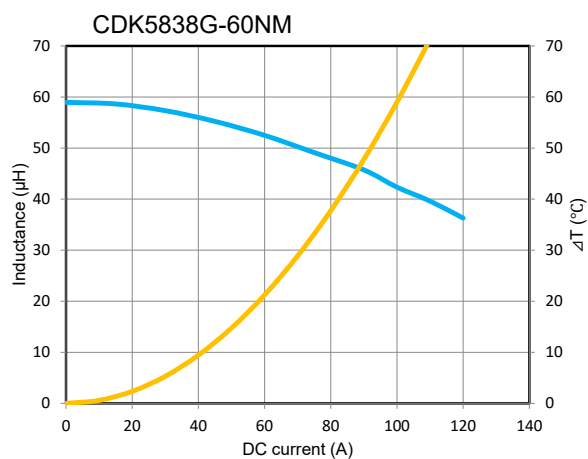
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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