

New Product : ‘CDG6250CB Series’ High Current Inductors for Automotive

SAGAMI ELEC CO., LTD. is pleased to introduce our newly developed product [CDG6250CB Series](#) (W6.8mm x D6.7mm x H5.0mm) of high current inductors for automotive applications, with sample availability starting in March 2024!

The ‘CDG6250CB Series’ has narrower L-value tolerance than our ‘[CDG6250C Series](#)’ inductors for high-frequency and high-current modules. It has a rated current of 35A or more, maintains high impedance from 20MHz to 3GHz, and is AEC-Q200 compliant.

The ‘CDG6250CB Series’ optimizes the assembly technology of the existing ‘CDG6250C Series’ to reduce the L-value tolerance from 20% to 15%, while maintaining other electrical characteristics. This reduces fluctuations in module power characteristics caused by L-value variations, contributing to improved power efficiency compared to the conventional products.

In addition to various power module applications, the ‘CDG6250CB Series’ is also suitable for impedance matching for wireless power transfer and noise filters utilizing high impedance in the GHz band.

We will continue to expand our product lineup to meet worldwide market needs and provide a wide variety of solutions!

Applications

Automotive ECUs, PCs, Various power supplies, Wireless power transfer, High-frequency noise filters

Features

- Inductance value $\pm 15\%$ narrow tolerance
- SMD inductors for high current
- Low DCR, high saturation current
- AEC-Q200 compliant
- Operating temperature range: -40°C to $+150^{\circ}\text{C}$ (including self-heating)

Electrical Characteristics

Part Number	Inductance (nH)	DCR max. (m Ω)	DC Saturation Allowable Current(A)	Temperature Rise Allowable Current (A)
CDG6250CB-90NL	$90 \pm 15\%$	0.4	63	35
CDG6250CB-R11L	$110 \pm 15\%$	0.4	50	35
CDG6250CB-R15L	$150 \pm 15\%$	0.4	35	35

Product Details

<https://www.sagami-elec.co.jp/en/product/detail.php?type=CDG6250CB>

Contact

Should you have any questions (including quotations and sample requests), please contact us through the [Inquiry form](#).