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**New Product: Metal Composite Power Inductors ‘CVK2522H Series’**

SAGAMI ELEC CO., LTD. is pleased to introduce our newly developed product [‘CVK2522H Series’](#) (W25mm×D20mm×H22.5mm) metal composite power inductors. The samples are now available starting January 2025.

[‘CVK2522H Series’](#) is one of the largest products in our metal type power inductor product line, with more than twice the current rating of ferrite products of the same type. The product lineup ranges from 1.0μH to 15μH and is AEC-Q200 compliant.

The [“CVK2522H Series”](#) has a lower DCR due to its increased size and high-density winding structure with flat wires, and the allowable current balance has been optimized for each inductance value. As a result, the [‘CVK2522H Series’](#) has the higher rated current than the conventional product, making it possible to meet the needs of applications requiring higher currents.

In addition to various power module applications, the [‘CVK2522H Series’](#) is also suitable for audiovisual applications and for applications in harsh temperature environments, taking advantage of the minimal change in DC superposition characteristics due to ambient temperature.

## Applications

Automotive ECU, Automotive - High current DCDC converter, In-vehicle BMS, Battery charger, Power supplies for various industrial equipment.

## Features

- High current by metallic magnetic material.
- Low resistance and high current specifications by using flat wire.
- Little change in DC superposition characteristics depending on environmental temperature
- Operating temperature: -40°C ~ +150°C (Including self-heating)
- AEC-Q200 compliant
- DC superposition allowable current exceeding 200A can be applied to CVK2522H-1R0M.

## Electrical Characteristics

Part Number	L(μH)	DCR (mΩ)		Isat (A)	Irat (A)
		Max	Typical		
CVK2522H-1R0M	1 ± 20%	0.3	0.2	220	90
CVK2522H-5R4M	5.4 ± 20%	1.3	1.0	100	46
CVK2522H-6R8M	6.8 ± 20%	1.7	1.3	87	40
CVK2522H-100M	10 ± 20%	2.3	1.8	80	35
CVK2522H-150M	15 ± 20%	3.9	3.0	59	26

## Product Details

<https://www.sagami-elec.co.jp/en/product/detail.php?type=CVK2522H>

## **Contact**

For inquiries about this product (including quotations and sample requests), please contact us using the [inquiry form](#).