

## New Product: Metal Composite Type 'XRK1770B Series'



SAGAMI ELEC CO., LTD. is pleased to introduce our newly developed product '[XRK1770B Series](#)' (W17.15mm×D17.15mm×H7.0mm) metal composite power inductors.

'[XRK1770B Series](#)' is a size-up version of our '[XRK1365B series](#)', the largest size in our XRK and XRJ series of metal composite power inductors, and has higher rated current. The product lineup ranges from 0.68μH to 68μH, and is AEC-Q200 compliant.

In the '[XRK1770B Series](#)', the allowable current balance has been optimized for each inductance value while achieving low DCR by increasing the size. As a result, the '[XRK1770B Series](#)' has higher rated current than conventional products, making it possible to support applications that require higher currents.

In addition to various power module applications, the '[XRK1770B Series](#)' is also suitable for audiovisual applications and for applications in harsh temperature environments, taking advantage of the minimal change in DC superposition characteristics caused by ambient temperature.

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

### Applications

Automotive ECU, PC, Various power supplies, VRM, HDD

### Features

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- Realizing high current specifications by metallic magnetic materials.
- Low noise because of the gapless integrated structure.
- Minimal change in DC superposition characteristics caused by ambient temperature.
- AEC-Q200 compliant
- Operating temperature range: -40°C to +150°C (including self-heating)

## Electrical Characteristics

Part Number	L(μH)	DCR (mΩ)		Isat (A)	Irat (A)
		Max	Typical		
XRK1770B-R68M	0.68 ± 20%	1.3	1.2	57	27
XRK1770B-1R0M	1 ± 20%	1.5	1.2	42	28
XRK1770B-1R5M	1.5 ± 20%	2.2	1.9	31	23
XRK1770B-2R2M	2.2 ± 20%	2.4	2.3	26	22
XRK1770B-3R3M	3.3 ± 20%	3.3	3	25	19.5
XRK1770B-4R7M	4.7 ± 20%	4.7	4.1	22	17
XRK1770B-6R8M	6.8 ± 20%	7.2	6.2	14.5	13.7
XRK1770B-8R2M	8.2 ± 20%	8.7	8	15	12.5
XRK1770B-100M	10 ± 20%	10	8.9	13.5	11
XRK1770B-150M	15 ± 20%	15.5	12.6	12	9.4
XRK1770B-220M	22 ± 20%	22.2	21	9.2	7.3
XRK1770B-330M	33 ± 20%	37	34.8	7.7	6.2
XRK1770B-470M	47 ± 20%	46	39.9	6.8	5.3
XRK1770B-680M	68 ± 20%	60	55.5	5.4	4.4

## **Product Details**

<https://www.sagami-elec.co.jp/en/product/detail.php?type=XRK1770B>

## **Contact**

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