



## NEWS RELEASE

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### News Release: 2-in-1 Metal Inductors for Class D 'DRU Series'



Sagami Elec Co., Ltd. is pleased to announce the development of its Metal Inductors for Class D, the "[DRU Series](#)" with samples now available.

This metal-type inductor is designed for Class D amplifier applications and is offered in three compact sizes (6 mm, 8 mm, and 10 mm), incorporating a space-saving 2-in-1 structure. It is also compliant with AEC-Q200, making it well suited for automotive audio systems.

The "[DRU Series](#)" uses metal materials to achieve a high-efficiency, low-loss design that delivers superior sound quality. Compared with conventional ferrite-type inductors, it supports higher current levels and provides excellent saturation characteristics, enabling reliable operation in high-output applications.

Beyond car audio and navigation systems, the series is ideal for a wide range of audiovisual applications and various power supply circuits, offering stable DC bias characteristics with minimal variation across different ambient temperatures.

### **Main Applications**

Car audio, Car navigation, Audio-visual equipment, AV Amplifier, Power supplies

## Features

- High current capability achieved through metallic magnetic materials
- Space-saving design enabled by 2-in-1 construction
- Reduced acoustic noise due to the absence of air gaps
- Low inductance variation across temperature environments.
- Operating temperature : -40°C~+125°C (Including self-heating)
- AEC-Q200 compliant

## Electrical Characteristics

Part Number	L(μH)	DCR (mΩ)		Isat (A)	Irat (A)
		Max	Typical		
<a href="#">DRU6973G-3R3M</a>	3.3 ± 20%	19	15.6	13.2	5.7
<a href="#">DRU6973G-100M</a>	10 ± 20%	48.2	42.4	6.8	3.5
<a href="#">DRU6973G-220M</a>	22 ± 20%	133.5	111.4	4.4	2.2
<a href="#">DRU8189G-3R3M</a>	3.3 ± 20%	15.8	13.2	16.8	6.3
<a href="#">DRU8189G-100M</a>	10 ± 20%	40	32.5	8	4
<a href="#">DRU8189G-220M</a>	22 ± 20%	105	88	4.6	2.4
<a href="#">DRU1010G-3R3M</a>	3.3 ± 20%	8.5	7.4	26.4	9.2
<a href="#">DRU1010G-100M</a>	10 ± 20%	21.7	17.6	12.4	5.8
<a href="#">DRU1010G-150M</a>	15 ± 20%	40.5	33.8	9.2	4.6
<a href="#">DRU1010G-220M</a>	22 ± 20%	55.2	45.1	8.8	3.8

Inductance Measuring Condition:100kHz,0.25V

DC saturation allowable current: The current value which inductance decrease 25% from the initial value

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

Sagami Elec Co., Ltd. will continue to expand its product lineup to address evolving market needs and to support a wide range of solutions.

## **Product Details**

<https://www.sagami-elec.co.jp/en/product/list.php?sagamiPartsNo=DRU&srctype=nm>

## **Contact**

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