

Customizable Super High Current Power Inductor CPRX Series

- Saturation current up to 350A, quickly customizable
- Design for high power solutions such as DC-DC converter, renewable energy, industrial control, etc.



■ General Description

Inductors are important components in the circuit of energy storage, industrial control, industrial power supply devices. In high power solutions, inductors need to be characterized by high saturation current, low loss, low temperature rise, high power density, and compact design. To meet above demands, CODACA introduced the CPRX series.

The CPRX series uses CODACA's self-developed metal powder core material, which provides the inductor with extremely low core loss and excellent soft saturation characteristics, enabling it to withstand higher transient peak currents and maintain stable electrical performance. The flat wire winding design provides extremely low DC resistance. Inductors can operate for long time at high temperatures and maintain stable inductance and DC bias capability. CODACA can provide product customization service according to customer's needs.

■ Features



Flat wire winding, achieve a low DC resistance



Excellent DC bias capability to handle instantaneous peak current, saturation current up to 350 A



Magnetically shielded structure, excellent resistance to EMI



Operating temperature: $-55^{\circ}\text{C} \sim +150/155^{\circ}\text{C}$

■ Applications



Voltage Regulator Module (VRM)



Energy Storage



Industrial Power Supply



DC-DC Converter

Electrical Characteristics

Part No.	Inductance (μH)	D.C.R. (mΩ)	Saturation current (A)	Temperature rise current (A)	Size LxWxH(mm)
CPRX1912H	1.20~10.0	0.95~6.89	48.0~130.0	17.0~45.0	19.0x12.5x17.5
CPRX1912L	3.30~22.0	0.95~6.89	16.5~45.0	17.0~45.0	19.0x12.5x17.5
CPRX1912S	2.00~15.0	0.95~6.89	25.0~65.0	17.0~45.0	19.0x12.5x17.5
CPRX2315HA	0.75~27.0	0.36~14.35	30.0~180.0	10.0~75.0	23.5x15.0x21.0
CPRX2315LA	1.80~62.0	0.36~14.35	13.0~80.0	10.0~75.0	23.5x15.0x21.0
CPRX2315SA	1.20~42.0	0.36~14.35	20.0~120.0	10.0~75.0	23.5x15.0x21.0
CPRX2520H	0.60~4.70	0.21~1.85	118.0~350.0	44.0~80.0	25.0x20.8x21.75
CPRX2520L	1.20~10.0	0.21~1.85	45.0~150.0	44.0~80.0	25.0x20.8x21.75
CPRX2520S	0.90~7.50	0.21~1.85	60.0~180.0	44.0~80.0	25.0x20.8x21.75
CPRX3018HA	1.00~6.20	0.35~2.00	140.0~350.0	38.0~92.0	30.0x18.5x27.5
CPRX3018LA	2.20~14.0	0.35~2.00	42.0~110.0	38.0~92.0	30.0x18.5x27.5
CPRX3018SA	1.50~9.10	0.35~2.00	70.0~170.0	38.0~92.0	30.0x18.5x27.5
CPRX3231L	6.20~30.0	0.55~2.45	47.0~100.0	30.0~68.0	32.0x32.0x30.0

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