

Super High Current Power Inductor CPEX5051DL/DS Series

- Saturation current up to 165A, low loss, high current, low temperature rise
- Designed for industrial power supply, energy storage power supply, new energy vehicle motor drive and other applications



■ General Description

CODACA has launched two new series of super high current power inductors, CPEX5051DL and CPEX5051DS. The inductors were developed for high power applications. They can be widely used in industrial power supplies, high power modules, energy storage power supplies, and new energy vehicles' motor drives, etc.

CPEX5051DL and CPEX5051DS series are designed with flat wire winding and low loss magnetic powder core material. They have extremely low DC resistance and core loss, low temperature rise and high efficiency. They can work stably for a long time in high current applications. The inductors have excellent DC bias capability and soft saturation characteristics to handle instantaneous spike currents. The saturation current of CPEX5051DL and CPEX5051DS is up to 165A, and temperature rise current is up to 114A. CPEX5051DL and CPEX5051DS series have excellent temperature stability, with a working temperature range of -55°C to +155°C.

■ Features



Flat wire winding, achieving a low DC resistance



Excellent DC bias capability to handle instantaneous peak current



Magnetically shielded structure, excellent resistance to electromagnetic interference



Operating temperature: -55°C ~ +155°C

■ Applications



Industrial Automation



Battery Test Equipment

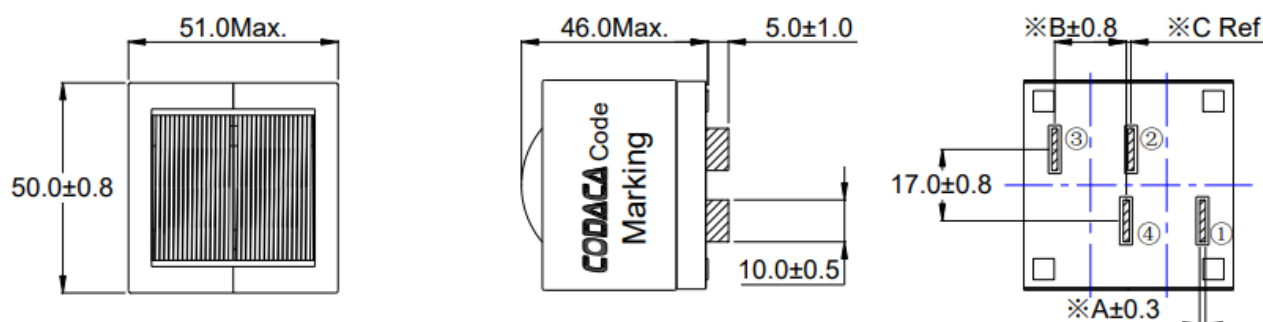


Renewable Energy



Automotive Electronics

Appearance and Dimensions (mm)



Note: On the basis of this welding disc and size, the product can be customized according to customers' needs.

Electrical Characteristics

Part No.	Inductance (μH)	D.C.R. (mΩ)	Saturation current (A)	Temperature rise current (A)	Size LxWxH(mm)
CPEX5051DL-130MC	13.00	1.02	111.00	114.00	50.0x51.0x46.0
CPEX5051DL-170MC	17.00	1.27	100.00	105.00	50.0x51.0x46.0
CPEX5051DL-250MC	25.00	1.79	87.00	100.00	50.0x51.0x46.0
CPEX5051DL-560MC	56.00	4.06	58.00	67.00	50.0x51.0x46.0
CPEX5051DL-920MC	92.00	6.96	47.00	51.00	50.0x51.0x46.0
CPEX5051DS-9R5MC	9.50	1.02	165.00	114.00	50.0x51.0x46.0
CPEX5051DS-110MC	11.00	1.27	150.00	105.00	50.0x51.0x46.0
CPEX5051DS-160MC	16.00	1.79	125.00	100.00	50.0x51.0x46.0
CPEX5051DS-380MC	38.00	4.06	83.00	67.00	50.0x51.0x46.0
CPEX5051DS-620MC	62.00	6.96	65.00	51.00	50.0x51.0x46.0



Learn more

