



High Current Power Inductor CPEX Series

- Low DCR
- High operation current up to 155°C
- Designed for high power solutions

■ General Description

With the increasing power output and space requirements of industry users, high power components in automotive electronics, renewable energy, photo voltaic inverters, industrial control and other fields put forward miniaturization, high power and low loss demands for power conversion devices. In response to the trend of industry users' demands, CODACA has launched the CPEX super high current inductor series.

They are made by new magnetic powder core with low core loss and excellent soft saturation characteristics to withstand the high peak current. The flat wire winding can provide extremely low DC and AC resistance, realizing high power, low temperature rise. In addition, the high current inductor CPEX series has excellent temperature stability characteristics and can work stably in a high temperature environment.

■ 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



Agricultural UAV



Renewable Energy



Automotive Electronics

Electrical Characteristics

	Part No.	Inductance (μH)	D.C.R. (mΩ)	Saturation current (A)	Temperature rise current (A)	Size LxWxH(mm)
	CPEX2017L	3.30~22.0	0.77~4.67	24.0~70.0	20.5~52.5	20.5X17.5X20.5
	CPEX2017S	2.20~14.0	0.79~4.80	41.0~104	20.5~52.5	20.5X17.5X20.5
	CPEX2020A	10.0~22.0	2.20~4.50	21.0~35.0	23.0~30.0	20.5X20.5X17.5
	CPEX2022L	2.70~22.0	0.60~3.72	27.0~82.0	24.0~60.0	20.5X22.2X21.0
	CPEX2022S	1.80~20.0	0.60~4.95	36.0~114	22.0~60.0	20.5X22.2X20.5
	CPEX2622L	2.20~22.0	0.36~2.90	37.0~120	28.0~79.0	26.5X22.2X25.0
	CPEX2622S	1.50~15.0	0.36~2.90	50.0~150	28.0~79.0	26.5X22.2X25.0
	CPEX2626L	4.10~35.0	0.53~3.88	30.0~92.0	25.0~60.0	26.5X26.0X25.0
	CPEX2626S	3.30~22.0	0.53~3.88	43.0~120	25.0~60.0	26.5X26.0X25.0
	CPEX2722	10.0~27.0	3.60	30.0~95.0	26.5	27.3X21.5X22.3
	CPEX3222L	6.20~47.0	0.60~4.60	30.0~88.0	23.0~65.0	32.2X22.2X30.0
	CPEX3222S	4.30~30.0	0.60~4.60	43.0~115	23.0~65.0	32.2X22.2X30.0
	CPEX3222H	2.60~20.0	0.60~4.60	85.0~240	23.0~65.0	32.2X22.2X30.0
	CPEX3231A	10.0~33.0	0.88~2.40	30.0~86.0	34.0~53.0	32.8X32.0X28.5
	CPEX3231L	4.70~45.0	0.39~3.11	34.0~115	30.0~84.0	32.2X31.5X30.5
	CPEX3231S	3.20~30.0	0.42~3.11	49.0~148	30.0~84.0	32.2X31.5X30.5
	CPEX3231H	2.00~20.0	0.42~3.11	96.0~290	30.0~84.0	32.2X31.5X30.5
	CPEX3635L	4.70~110	0.30~6.18	24.0~126	30.0~120	36.0X35.7X34.2
	CPEX4141L	27.0~100	1.31~4.85	31.0~60.0	35.0~70.0	41.5X41.0X39.0
	CPEX4141S	19.0~68.0	1.31~4.85	45.0~85.0	35.0~70.0	41.5X41.0X39.0
	CPEX5051DS	9.50~62.0	1.02~6.96	65.0~165	51.0~114	50.0X51.0X46.0

