

Compact High Current Power Inductor CSCIL Series

- High current, high power supply efficiency
- Compact design for high density mounting
- Saturation current up to 65A



■ General Description

CADACA developed compact high current power inductors CSCIL series. The inductors designed for industrial power supplies, power modules, industrial control motherboards, high current switching regulators and other industries, in order to meet the demand for high current, high saturation and small size inductors.

CSCIL series adopts low loss alloy powder core material and flat wire winding design, featuring low loss and low DCR; excellent soft saturation characteristics, which can withstand high peak current without saturation. The inductors improve package stability and circuit board adhesion by adding a third welded terminal to enhance system stability and reliability.

■ Features



Flat wire winding design, low DCR, low loss, high power supply efficiency



Excellent soft saturation characteristics, able to withstand higher peak currents without saturation



Compact design for high density mounting requirements



Resistant to high and low temperatures, operating temperature $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$

■ Applications



Industrial Motherboard



POL Power Supply



Switching Regulator

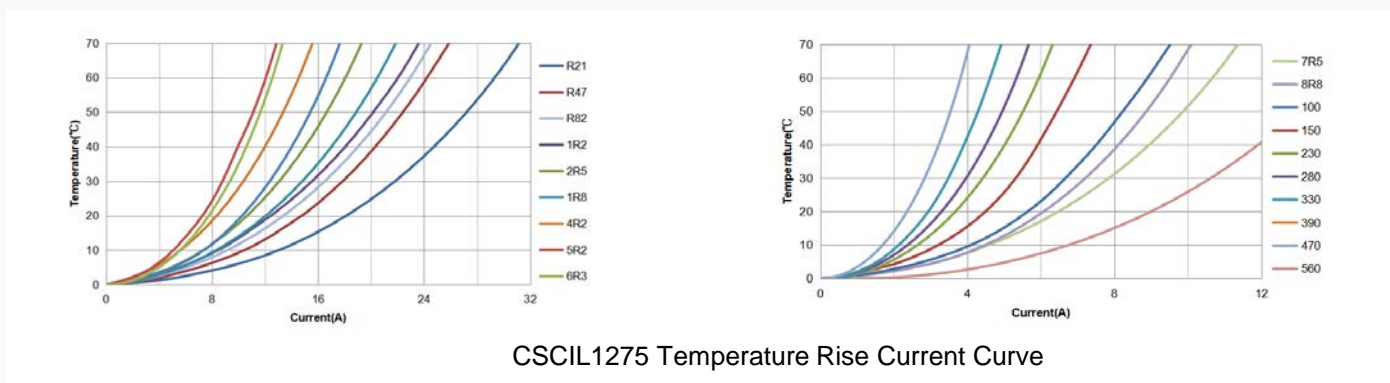
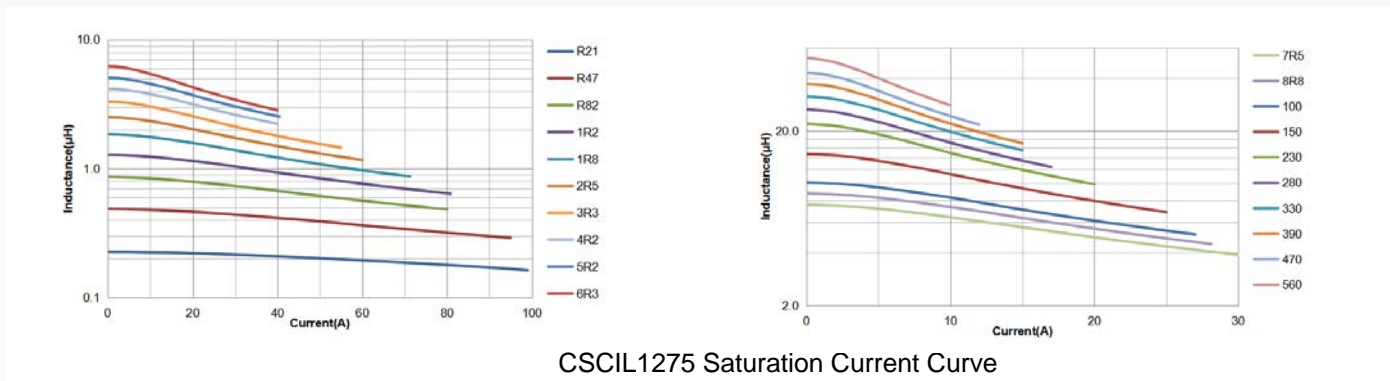


Power Module

Electrical Characteristics

Part No.	Inductance (μH)	D.C.R. (mΩ)	Saturation current (A)	Temperature rise current (A)	Size LxWxH(mm)
CSCIL1045	0.18~5.30	0.68~20.4	6.80~38.0	4.80~24.0	10.2x10.0x4.50
CSCIL1050	0.16~7.80	0.68~25.9	7.00~45.0	4.60~24.0	10.2x10.0x5.00
CSCIL1056	0.60~10.0	1.35~24.6	6.80~26.0	5.20~19.0	10.2x10.0x5.60
CSCIL1065	0.33~15.0	1.00~32.3	5.60~36.0	4.60~23.0	10.2x10.0x6.50
CSCIL1250	0.26~13.0	0.62~34.0	6.00~40.0	4.50~25.0	12.7x12.5x5.00
CSCIL1256	0.24~18.0	0.62~40.0	5.50~50.0	4.00~25.0	12.7x12.5x5.60
CSCIL1265	0.23~33.0	0.62~55.0	4.80~57.0	3.50~25.0	12.7x12.5x6.50
CSCIL1275	0.21~56.0	0.62~73.7	3.90~65.0	2.90~25.0	12.7x12.5x7.50

Current Curve



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