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Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnc-11-12p5-29p5-20-35-53-002-mfgr/>

Product datasheet: CCNC-11-12P5-29P5-20-35-53-002-MFGR

Product information

Nanocrystalline cut core 11x12.5x29.5x20x35x53x2 mm

Finish: Green Epoxy

CCNC-11-12P5-29P5-20-35-53-002-MFGR is a 11x12.5x29.5x20x35x53x2 mm nanocrystalline cut core for compact PFC boost inductors, LED driver inductors, and telecom power supply chokes. The 11x12.5 mm limb and 29.5 mm window length suit bobbin or form-wound coils where an openable core simplifies assembly. Choose this size when Ae, window, and overall length (53 mm) match the target inductor or reactor duty.

Bare core dimensions

Magnetic properties

Effective area Ae: 2 cm²

Mean path length Le: 11.7 cm

AL @ 1kHz, 2mT: 330 uH/T²

AL @ 10kHz, 2mT: 205 uH/T²

AL @ 100kHz, 2mT: 25 uH/T²

Saturation Bs: 1.25 Tesla

Initial permeability μ_i : 80000

Curie temperature: 560 C

Operating temperature: -40 deg C to +130 deg C

Net weight: 160 g

Applications

- compact PFC boost inductors
- LED driver inductors
- telecom power supply chokes
- small SMPS output inductors
- compact single-phase PFC inductors (typically 100–300W class)
- high-density SMPS output filters
- automotive auxiliary power supplies
- compact LLC resonant inductors