

CENTURACORES

Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnc-09-09-32-15-28-51-002-mfgr/>

Product datasheet: CCNC-09-09-32-15-28-51-002-MFGR

Product information

Nanocrystalline cut core 9x9x32x15x28x51x2 mm

Finish: Green Epoxy

CCNC-09-09-32-15-28-51-002-MFGR is a 9x9x32x15x28x51x2 mm nanocrystalline cut core for LED driver chokes, small SMPS output inductors, and low-power PFC boost inductors. The 9x9 mm limb and 32 mm window length suit bobbin or form-wound coils where an openable core simplifies assembly. Choose this size when A_e , window, and overall length (51 mm) match the target inductor or reactor duty.

Bare core dimensions

Magnetic properties

Effective area A_e : 1.24 cm²

Mean path length L_e : 10.7 cm

AL @ 1kHz, 2mT: 205 uH/T²

AL @ 10kHz, 2mT: 125 uH/T²

AL @ 100kHz, 2mT: 17 uH/T²

Saturation B_s : 1.25 Tesla

Initial permeability μ_i : 80000

Curie temperature: 560 C

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

Net weight: 90 g

Applications

- LED driver chokes
- small SMPS output inductors
- low-power PFC boost inductors
- auxiliary power supply chokes
- auxiliary SMPS output chokes (typically sub-50W class)
- LED driver inductors
- isolated flyback/forward transformers
- low-power differential-mode EMI filter chokes
- precision current-sensing transformers