

CENTURACORES

Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnc-13-15-56-25-42-84-002-mfgr/>

Product datasheet: CCNC-13-15-56-25-42-84-002-MFGR

Product information

Nanocrystalline cut core 13x15x56x25x42x84x2 mm

Finish: Green Epoxy

CCNC-13-15-56-25-42-84-002-MFGR is a 13x15x56x25x42x84x2 mm nanocrystalline cut core for industrial PFC inductors, DC reactors, and EV onboard charger inductors. The 13x15 mm limb and 56 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 (84 mm) match the target inductor or reactor duty.

Bare core dimensions

Magnetic properties

Effective area A_e : 3.6 cm²

Mean path length L_e : 17.9 cm

AL @ 1kHz, 2mT: 350 uH/T²

AL @ 10kHz, 2mT: 180 uH/T²

AL @ 100kHz, 2mT: 36 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: 380 g

Applications

- industrial PFC inductors
- DC reactors
- EV onboard charger inductors
- solar string inverter reactors
- EV on-board chargers (typically 3.3–7.2kW class)
- 3-phase active PFC inductors
- solar string inverter boost chokes
- industrial DC bus smoothing reactors
- medium-frequency power transformers