CENTURACORES

Nanocrystalline Transformer Cores

https://centuracores.com/products/ccnc-10p8-13-40p5-25-35p5-62-002-mfgr/

Product datasheet: CCNC-10P8-13-40P5-25-35P5-62-002-MFGR

Product information

Nanocrystalline cut core 10.8x13x40.5x25x35.5x62x2 mm

Finish: Green Epoxy

CCNC-10P8-13-40P5-25-35P5-62-002-MFGR is a 10.8x13x40.5x25x35.5x62x2 mm nanocrystalline cut core for DC-link reactors, PFC inductors, and solar micro-inverter reactors. The 10.8x13 mm limb and 40.5 mm window length suit bobbin or form-wound coils where an openable core simplifies assembly. Choose this size when Ae, window, and overall length (62 mm) match the target inductor or reactor duty.

Bare core dimensions

Magnetic properties

Effective area Ae: 2.3 cm2

Mean path length Le: 15.1 cm

AL @ 1kHz, 2mT: 370 uH/T2

AL @ 10kHz, 2mT: 185 uH/T2

AL @ 100kHz, 2mT: 26 uH/T2

Saturation Bs: 1.25 Tesla

Initial permeability ui: 80000

Curie temperature: 560 C

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

Net weight: 215 g

Applications

- DC-link reactors
- PFC inductors
- solar micro-inverter reactors
- small industrial drive inductors
- industrial power supply PFC inductors (typically 500W–1.5kW class)
- DC-link smoothing chokes
- solar micro-inverter reactors
- small VFD motor-drive DC reactors
- high-current output inductors