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Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnc-11-13-40-20-35p5-63-002-mfgr/>

Product datasheet: CCNC-11-13-40-20-35P5-63-002-MFGR

Product information

Nanocrystalline cut core 11x13x40x20x35.5x63x2 mm

Finish: Green Epoxy

CCNC-11-13-40-20-35P5-63-002-MFGR is a 11x13x40x20x35.5x63x2 mm nanocrystalline cut core for DC filter reactors, mid-range SMPS output inductors, and solar micro-inverter chokes. The 11x13 mm limb and 40 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 (63 mm) match the target inductor or reactor duty.

Bare core dimensions

Magnetic properties

Effective area A_e : 1.8 cm²

Mean path length L_e : 15.4 cm

AL @ 1kHz, 2mT: 270 uH/T²

AL @ 10kHz, 2mT: 160 uH/T²

AL @ 100kHz, 2mT: 22 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: 170 g

Applications

- DC filter reactors
- mid-range SMPS output inductors
- solar micro-inverter chokes
- small industrial power supply inductors
- solar micro-inverter DC-DC inductors (typically 300–600W class)
- mid-power SMPS buck/boost inductors
- active EMI filter chokes
- DC grid line filters