

CENTURACORES

Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnt-065-050-025-hfbk/>

Product datasheet: CCNT-065-050-025-HFBK

Product information

Nanocrystalline toroidal core 65x50x25 mm

Bare size: 65x50x25 mm

Finish: Black PBT Class B 130C

CCNT-065-050-025-HFBK is a 65x50x25 mm nanocrystalline toroidal core for EV charger input filters, industrial drive EMI chokes, and large cable-bundle CM filters. Its nanocrystalline HF characteristic supports common-mode and EMI filter designs where impedance and winding window matter as much as size. Choose this size when the filter or choke needs this window and OD, not the next larger footprint.

Bare core dimensions

Outer diameter (OD): 65 mm

Inner diameter (ID): 50 mm

Height (H): 25 mm

Cased / finished dimensions

Outer diameter (OD): 68.3 mm

Inner diameter (ID): 46.8 mm

Height (H): 28.9 mm

Tolerance: 0.5mm

Size marking on the case is the bare core dimension, not the cased or finished size.

Magnetic properties

Effective area A_e : 1.57 cm²

Mean path length L_e : 18 cm

AL @ 10kHz, 2mT: 79 uH/T²

AL @ 100kHz, 2mT: 20 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: 197 g

Applications

- EV charger input filters
- industrial drive EMI chokes
- large cable-bundle CM filters
- renewable energy inverter filters
- EV charging station input common-mode EMI filters
- high-power industrial drive EMI suppression cores
- large cable-bundle/busbar common-mode filters
- utility-scale renewable energy inverter filters