

CENTURACORES

Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnt-090-060-020-hfbk/>

Product datasheet: CCNT-090-060-020-HFBK

Product information

Nanocrystalline toroidal core 90x60x20 mm

Bare size: 90x60x20 mm

Finish: Black PBT Class B 130C

CCNT-090-060-020-HFBK is a 90x60x20 mm nanocrystalline toroidal core for high-current EMI filters, large cable-bundle chokes, and industrial power conversion 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): 90 mm

Inner diameter (ID): 60 mm

Height (H): 20 mm

Cased / finished dimensions

Outer diameter (OD): 94 mm

Inner diameter (ID): 55 mm

Height (H): 24 mm

Tolerance: 1mm

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

Magnetic properties

Effective area A_e : 2.5 cm²

Mean path length L_e : 23.5 cm

AL @ 10kHz, 2mT: 95 uH/T²

AL @ 100kHz, 2mT: 26 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: 425 g

Applications

- high-current EMI filters
- large cable-bundle chokes
- industrial power conversion filters
- busbar EMI suppression
- high-power industrial common-mode EMI filters
- large cable-bundle/multi-conductor chokes
- industrial power conversion EMI suppression cores
- busbar/switchgear EMI filter chokes