

CENTURACORES

Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnt-025-016-010-hfwh/>

Product datasheet: CCNT-025-016-010-HFWH

Product information

Nanocrystalline toroidal core 25x16x10 mm

Bare size: 25x16x10 mm

Finish: White PBT Class B 130C

CCNT-025-016-010-HFWH is a 25x16x10 mm nanocrystalline toroidal core for inverter EMI filters, motor drive common-mode chokes, and SMPS line 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): 25 mm

Inner diameter (ID): 16 mm

Height (H): 10 mm

Cased / finished dimensions

Outer diameter (OD): 27.5 mm

Inner diameter (ID): 13.8 mm

Height (H): 12.6 mm

Tolerance: 0.3mm

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

Magnetic properties

Effective area A_e : 0.37 cm²

Mean path length L_e : 6.43 cm

AL @ 10kHz, 2mT: 67 uH/T²

AL @ 100kHz, 2mT: 15 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: 17.6 g

Applications

- inverter EMI filters
- motor drive common-mode chokes
- SMPS line filters
- small UPS filters
- single-phase inverter/VFD common-mode EMI filter chokes
- SMPS AC-line input filters
- small UPS EMI suppression cores
- motor drive output filter chokes