

CENTURACORES

Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnt-032-020-015-hfwh/>

Product datasheet: CCNT-032-020-015-HFWH

Product information

Nanocrystalline toroidal core 32x20x15 mm

Bare size: 32x20x15 mm

Finish: White PBT Class B 130C

CCNT-032-020-015-HFWH is a 32x20x15 mm nanocrystalline toroidal core for PV inverter EMI filters, motor drive chokes, and industrial 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): 32 mm

Inner diameter (ID): 20 mm

Height (H): 15 mm

Cased / finished dimensions

Outer diameter (OD): 34.5 mm

Inner diameter (ID): 17.6 mm

Height (H): 18.2 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 : 0.73 cm²

Mean path length L_e : 8.2 cm

AL @ 10kHz, 2mT: 100 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: 43 g

Applications

- PV inverter EMI filters
- motor drive chokes
- industrial line filters
- UPS EMI suppression
- PV/wind inverter common-mode EMI filters
- motor drive/VFD output chokes
- industrial three-phase line filters
- UPS common-mode EMI suppression cores