

CENTURACORES

Nanocrystalline Transformer Cores

<https://centuracores.com/products/ccnt-016-010-006-mfbl/>

Product datasheet: CCNT-016-010-006-MFBL

Product information

Nanocrystalline toroidal core 16x10x6 mm

Bare size: 16x10x6 mm

Finish: Blue PBT Class B 130C

CCNT-016-010-006-MFBL is a compact 16 mm nanocrystalline toroidal core for low-current current transformers, isolated gate-drive transformers, and precision current-sensing designs. Its 10 mm inner diameter supports small windings where board space is limited, while its high-permeability nanocrystalline material helps achieve sensitive current measurement at low turns. Choose this size when compactness is more important than maximum winding space or power throughput.

Bare core dimensions

Outer diameter (OD): 16 mm

Inner diameter (ID): 10 mm

Height (H): 6 mm

Cased / finished dimensions

Outer diameter (OD): 17.8 mm

Inner diameter (ID): 8.2 mm

Height (H): 7.9 mm

Tolerance: 0.2mm

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

Magnetic properties

Effective area A_e : 0.15 cm²

Mean path length L_e : 4.1 cm

AL @ 1kHz: 76 uH/T²

AL @ 10kHz, 2mT: 24 uH/T²

AL @ 100kHz, 2mT: 6 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: 5.4 g

Applications

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CCNT-016-010-006-MFBL

- small current transformers
- gate-drive transformers
- low-power auxiliary transformers
- sensor cores
- low-current instrument/protection current transformers
- MOSFET/IGBT gate-drive isolation transformers
- low-power auxiliary bias transformers
- precision current-sensing cores