



CCNT-048-040-008-STBK

Nanocrystalline toroidal core 48x40x8 mm

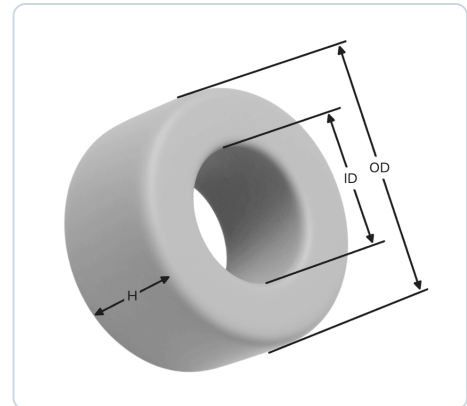
DIMENSIONS

Parameter	Bare (mm)	Cased (mm)
Outside diameter (OD)	48	54
Inside diameter (ID)	40	37
Height (H)	8	13

Dimensions Summary: Bare OD 48mm x ID 40mm x H 8mm; Cased OD 54mm x ID 37mm x H 13mm

Finished tolerance: TYP

Case marking uses bare core dimensions.



CORE PROPERTIES

A_{Fe}	—	L_{Fe}	—	B_s	1.25 T	μ_i	80,000
Working temp	−40°C – +130°C	Curie	560 °C	Casing	PBT Class B 130C	Weight	42 g

INDUCTANCE FACTOR AL ($\mu H/N^2$)

—
($\mu H/N^2$)

DESIGN NOTE

AL, Ae, and Le were not measured on this core. Size the winding from the published bare geometry. Size the winding to the finished inside diameter when it is published, not the bare ID. Keep peak flux within 1.25 T and continuous case temperature within the PBT Class B 130°C rating.

RECOMMENDED USAGE

Small Current Transformers | Gate-Drive Transformers | EMI Chokes

DIY AND R&D

Diy Gate-Drive Winding | Small Current-Transformer Prototyping

TECHNICAL APPLICATIONS

Compact Current Transformers | Gate-Drive Isolation | Low-Power EMI Chokes

DOCUMENT CONTROL

Author	Created	Approver	Approved
Aditya K.	6 Jan 2026	Mahavir S.	20 Jan 2026

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<https://centuracores.com/products/ccnt-048-040-008-stbk/>

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