



CCNT-054-038-005-STBN

Nanocrystalline toroidal core 54x38x5 mm

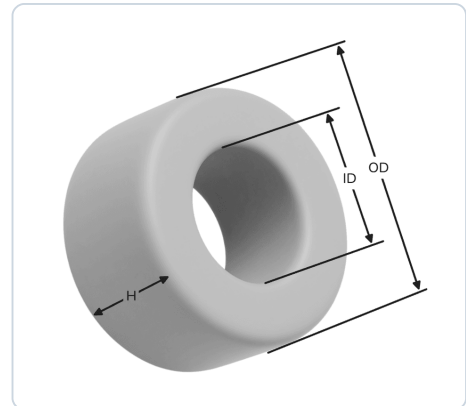
DIMENSIONS

Parameter	Bare (mm)	Cased (mm)
Outside diameter (OD)	54	55
Inside diameter (ID)	38	38
Height (H)	5	5.5

Dimensions Summary: Bare OD 54mm x ID 38mm x H 5mm; Cased OD 55mm x ID 38mm x H 5.5mm

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	Crepe tape	Weight	35 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. The core is tape wrapped; keep continuous duty within the wrap rating.

RECOMMENDED USAGE

Small Current Transformers | Gate-Drive Transformers | Sensor Cores

DIY AND R&D

Diy Gate-Drive Transformer Winding | Small Current-Transformer Prototyping

TECHNICAL APPLICATIONS

Low-Current Instrument Transformers | Gate-Drive Isolation | Precision Current Sensing

DOCUMENT CONTROL

Author	Created	Approver	Approved
CCNT-054-038-005-STBN Aditya R.	16 Jul 2026 https://centuracores.com/products/ccnt-054-038-005-stbn/	Manavir S.	9 Aug 2026 2026-10-16