



CCNT-065-038-025-LFBL

Nanocrystalline toroidal core 65x38x25 mm

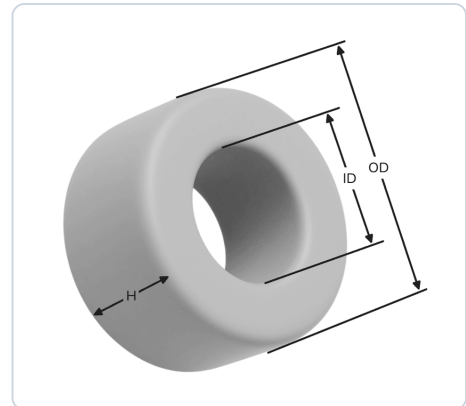
DIMENSIONS

Parameter	Bare (mm)	Cased (mm)
Outside diameter (OD)	65	65.4
Inside diameter (ID)	38	37.3
Height (H)	25	25.3

Dimensions Summary: Bare OD 65mm x ID 38mm x H 25mm; Cased OD 65.4mm x ID 37.3mm x H 25.3mm

Finished tolerance: 0.5mm

Case marking uses bare core dimensions.



CORE PROPERTIES

A_{Fe}	2.77 cm ²	L_{Fe}	16.18 cm	B_s	1.25 T	μ_i	50,000 (nominal)
Working temp	-40°C – +150°C	Curie	560 °C	Casing	Powder Coating	Weight	347 g

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

1kHz @ 0.3V, N=1 ($\mu H/N^2$)	10kHz @ 0.3V, N=1 ($\mu H/N^2$)	100kHz @ 0.3V, N=1 ($\mu H/N^2$)
110	67	6

DESIGN NOTE

Published AL is one turn through the window (Kelvin clips) at 0.3 V, not a 2 mT small-signal AL. At 1 kHz this drive saturates the smaller cores. Estimate inductance as $L \approx AL \times N^2$ on a wound part, then verify. Size the winding to the finished inside diameter when it is published, not the bare ID. Keep peak flux within 1.25 T. The finish is powder coating; keep continuous duty within the coating rating.

RECOMMENDED USAGE

High-Current Cts | Power Magnetics | Prototype Magnetics

DIY AND R&D

Diy Current-Sensing Builds | Benchtop Transformer Prototyping | Hobbyist Magnetics Experiments

TECHNICAL APPLICATIONS

High-Current Cts (powder-Coated Lf Toroid) | Power Magnetics (powder-Coated Lf Toroid) | Prototype Magnetics (powder-Coated Lf Toroid)

DOCUMENT CONTROL

Author	Created	Approver	Approved
Aditya R.	29 Jul 2026	Manavir S.	24 Aug 2026

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<https://centuracores.com/products/ccnt-065-038-025-lfbl/>

2026-10-16