



PRODUCT DATASHEET

Nanocrystalline Straight Bar / Block Core

Ultra-thin ribbon (< 26 µm) for high-frequency magnetics

DG Focus Technology Co., Ltd. · Source page: [product-nanocrystalline-block-core.html](#) · Compiled 25 September 2026. Values are copied from that page.

Custom sizes and windings available — request a quote at www.magcomponent.com/contact.html

Nanocrystalline straight bar and block cores made from ribbon thinner than 26 µm. The page publishes saturation flux density 1.2 T, Curie temperature 570°C, and saturation magnetostriction $\lambda_s = 2\sim 3 \times 10^{-6}$.

Electromagnetic characteristics

Parameter	Published value
Saturation flux density (Bs)	1.2 T
Curie temperature (Tc)	570°C
Crystallization temperature (Tx)	510°C
Density	7.2 g/cm ³
Resistivity (ρ)	100 µΩ·cm
Saturation magnetostriction (λs)	$2\sim 3 \times 10^{-6}$
Ribbon thickness	< 26 µm
Max operating temperature (card)	< 155°C
FAQ operating range	−40°C to +155°C

Saturation magnetostriction $\lambda_s = 2\sim 3 \times 10^{-6}$ is the DG Focus / MagComponent nanocrystalline rectangular C-core catalog value. Finished-core Bs on this page is 1.2 T. 1K107 ribbon Bs is ≈ 1.25 T on that ribbon page.

Standard models

Data are from optimally annealed samples, for reference. The page says they are not the final indicators guaranteed for orders.

P/N	L ±0.5 mm	W ±0.5 mm	H ±0.2 mm	Ae (cm ²)	Weight (kg)
MCNB 902555	90	25	55	19.13	0.891
MCNB 1003085	100	30	85	25.50	1.836
MCNB 1204045	120	40	45	40.80	1.555
MCNB 1505040	150	50	40	63.75	2.160
MCNB 303085	30	30	85	7.65	0.551
MCNB 403670	40	36	70	12.24	0.726

Only typical models are listed on the page.

Applications

As published on the product page:

- High-frequency transformers
- Inductors
- Power supplies
- Electromagnetic applications that need the properties above

Published notes

- Customization published on the page: length 20 mm to 200 mm, width 10 mm to 50 mm, height 5 mm to 85 mm.



- The FAQ says custom sizes from 20 mm to 200 mm, which matches the length range, not every axis.

Not published on this product page. These items are omitted rather than estimated:

- Initial permeability (μ_i), AL, and a numeric core-loss figure are not published on this page.
- The card says maximum operating temperature $< 155^{\circ}\text{C}$ and the FAQ says -40°C to $+155^{\circ}\text{C}$. Both are printed; neither adds a third limit.

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