



PRODUCT DATASHEET

High-Current Flat Wire PFC Inductor

Product model: MCST25007. Sendust core, not nanocrystalline.

DG Focus Technology Co., Ltd. · Source page: [product-high-current-pfc-inductor.html](https://www.magcomponent.com/product-high-current-pfc-inductor.html) · Compiled 25 September 2026. Values are copied from that page.

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MCST25007 high-current flat wire PFC inductor for power factor correction, switching power supplies, and high-frequency chokes. Inductance is 8.5 μH with a 100 A current rating. The core material on this page is Sendust, not nanocrystalline ribbon.

Electrical characteristics — MCST25007

Parameter	Published value
Inductance	8.5 μH $\pm 20\%$ at 10 kHz / 0.1 V
Rated current	100 A
DC resistance	Maximum 1.5 m Ω at 25°C
Core material	Sendust CS184060-HF
Structure	Single coil / core coil
Materials note	Page also says MPP/Hi-Flux materials for low core loss
Storage temperature	−20°C to +85°C
Operating frequency	High frequency (no numeric band on the page)
Hipot	500 VAC, 3 seconds, 5 mA, coil to core
Interlayer short-circuit test	Maximum 20% deviation at 1600 V
Insulation resistance	Minimum 100 M Ω at DC 500 V
HS code	8504500000
Packaging dimensions	10.00 × 5.00 × 5.00 cm
Gross weight	0.300 kg

Applications

As published on the product page:

- Power factor correction circuits
- Switching power supplies that need high current
- High-frequency chokes

Published notes

- The page states large AE/Le values and a large winding space that reduces copper loss. No numeric AE or Le is published.
- The page states 10+ years of manufacturing experience and a 3-5 year warranty.
- The page states the part maintains high saturation at elevated temperatures. No separate saturation flux density is published.

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

- Saturation flux density (Bs), permeability (μ), and a numeric core-loss figure are not published on this page.
- An operating-temperature range distinct from the storage range (−20°C to +85°C) is not published.
- This part is Sendust. Nanocrystalline λs and 1K107 μi do not apply.



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