



PRODUCT DATASHEET

Amorphous Planar Core (AMDT)

1K101/1K102 ribbon for SCBH15/19 and oil-immersed distribution transformers

DG Focus Technology Co., Ltd. · Source page: product-amorphous-planar-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

Flat distribution-transformer core wound from 1K101/1K102 iron-based amorphous ribbon. No-load loss is stated as 60–80% lower than traditional silicon steel transformers. Saturation flux density is 1.56 T. Core loss is below 0.15 W/kg at 50 Hz, 1.35 T.

Material characteristics (1K101)

Parameter	Published value
Saturation flux density (Bs)	1.56 T at H = 800 A/m
Coercivity (Hc)	< 4 A/m
Curie temperature (Tc)	415°C
Resistivity (ρ)	130 μΩ·cm at room temperature
Ribbon thickness	0.025 mm
Core loss (Pcv)	< 0.15 W/kg at 50 Hz, 1.35 T
Long-term operation	130°C, as stated on the page
Oil-immersed capacity	30 kVA to 1600 kVA
Dry-type examples	30 kVA to 2000 kVA

SCBH15/19 dry-type examples

kVA	External A1×B1 (mm)	Window A2×B2 (mm)	Core height D (mm)
30	474 × 538	285 × 140	142
100	572 × 674	380 × 205	213
400	1030 × 1030	500 × 245	284
1000	1454 × 1266	1000 × 309	284
2000	1618 × 1516	2000 × 374	426

Applications

As published on the product page:

- SCBH15/19 dry-type and oil-immersed distribution transformers
- Renewable plant step-up and station transformers at line frequency
- Rail and infrastructure auxiliary distribution
- Data-center and UPS distribution at line frequency
- Factory distribution transformers in the published kVA steps

Published notes

- Oil-immersed key features printed on the page: extremely low no-load current, low noise, national green-energy standards, and high energy efficiency. No separate no-load-current number is given.
- The page says the 20 kHz loss (20–50 W/kg at 0.2 T) and 410°C Curie temperature belong to the amorphous E-core, not to this planar core.



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

- Initial permeability (μ_i) and saturation magnetostriction (λ_s) are not published on this page.
- 1K102 electrical values, other than the ribbon family name, are not tabulated on this page.
- Not every kVA step between 30 and 2000 has a window in the dry-type table. Only the five rows above are printed.

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