PRODUCT DATASHEET

# Nanocrystalline Multiphase Common Mode Choke

Product model: MCNT20006

DG Focus Technology Co., Ltd. · Source page: product-multiphase-common-mode-choke.html · Compiled 25 September 2026. Values are copied from that page.

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MCNT20006 nanocrystalline multiphase common mode choke for EMI and RFI suppression in switching regulators and power supplies. Inductance is 1.2 mH. Rated current is 25 A, with up to 50 A handling stated on the page.

## Electrical characteristics — MCNT20006

| Parameter | Published value |
|---|---|
| **Inductance** | 1.2 mH ±30% at 1.0 kHz / 0.25 V |
| **Rated current** | 25 A |
| **Current handling** | Up to 50 A; FAQ says 50 A peak for short durations and recommends 25 A continuous |
| **DC resistance** | Maximum 10 mΩ at 25°C |
| **Core shape** | Toroid |
| **Core material** | Nanocrystalline |
| **Frequency coverage** | 1 kHz to 500 kHz |
| **Differential-mode inductance** | < 1% |
| **Hipot** | 1500 VAC, 5 mA, 1 second, between windings |
| **Interlayer short-circuit test** | 1600 Vac |
| **Operating temperature** | −20°C to 85°C |
| **Temperature rise** | Typical 40°C |
| **Compliance** | Materials meet UL requirements and RoHS 2.0, as stated on the page |
| **HS code** | 8504500000 |
| **Production capacity** | 100,000 units/month |
| **Lead time** | FAQ: 2–4 weeks for standard orders |

## Applications

As published on the product page:

- EMI/RFI suppression in switching regulators
- Power-supply EMI filtering
- Multiphase power conversion

## Published notes

- The page describes high permeability and high magnetic flux density (AE/Le). No numeric μi, Bs, AE, or Le is published on this page.
- The page states a large winding space that reduces copper loss, and that saturation stays high at elevated temperature. No separate Bs number is given.
- The page states 12+ years of industry experience and a 3–5 year warranty.

**Not published on this product page.** These items are omitted rather than estimated:
• Numeric initial permeability (μi), saturation flux density (Bs), and saturation magnetostriction (λs) are not published on this page.
• A core-loss number and an outline drawing with dimensions in text are not published on this page.

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