

PRODUCT DATASHEET

# High Permeability Nanocrystalline Common Mode Inductor

Product model: CMT75020

DG Focus Technology Co., Ltd. · Source page: product-nanocrystalline-common-mode-inductor.html · Compiled 24 September 2026. Values are copied from that page.

Custom sizes and windings available — request a quote at [www.magcomponent.com/contact.html](http://www.magcomponent.com/contact.html)

MagComponent presents the CMT75020 nanocrystalline common mode inductor, specifically designed for EMI and RFI suppression in switching regulators and power supplies. This high-performance component features excellent suppression capabilities with 5.0mH minimum inductance.

## Electrical characteristics — CMT75020

Values below are the figures printed in the technical specifications and detailed electrical characteristics sections.

| Parameter                            | Published value                                  |
|--------------------------------------|--------------------------------------------------|
| Structure                            | Mutual inductance / single coil                  |
| Core material                        | Nanocrystalline                                  |
| Inductance (1-4/2-3)                 | 5.0mH Min @16.0KHz/0.3V; 0.80mH Min @200KHz/0.1V |
| Rated current                        | 12.0 A                                           |
| Leakage inductance (1-4)             | 15µH Max @16.0KHz/0.5V (shorted 2,3)             |
| DC resistance (DCR)                  | 10.8 ± 3.24 mΩ @25°C                             |
| Operating temperature                | -40°C to 105°C                                   |
| Frequency range                      | 1KHz-500KHz                                      |
| Insulation withstand voltage (Hipot) | 1500VAC, 5mA, 1 second (50/60Hz)                 |
| Insulation resistance                | 100MΩ Min @DC500V                                |
| Product dimensions                   | 31×31×25mm                                       |
| Packaging dimensions                 | 5.00×5.00×4.00cm                                 |
| Gross weight                         | 0.300kg                                          |
| Compliance                           | UL Certified, RoHS 2.0                           |

The summary card also prints DC resistance as 10.8 mΩ and leakage inductance as 15 µH Max. The rows above use the more complete test conditions from the detailed section.

## Applications

As published on the product page:

- EMI and RFI suppression in switching regulators and power supplies
- Noise filtering in those circuits

## Published notes

- The page states a large winding space, low copper loss, and high magnetic flux density (AE/Le). No numeric AE or Le is published.
- The page states that the part maintains high saturation at elevated temperatures. No separate saturation flux density is published on this page.
- The page states differential mode inductance value less than 1%. Test conditions for that statement are not given.
- The page states that customization is available for special requirements and performance specifications.

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

- This page publishes model CMT75020 only. Other inductance or current ratings are not listed.
- Saturation flux density (Bs), permeability ( $\mu$ i), ribbon thickness, and core loss are not published on this page.
- A winding diagram pinout beyond the terminal pairs named above (1-4/2-3 and shorted 2,3) is not transcribed here because the page's dimension figure is an image without a text table of further pins.

**Custom sizes and windings available — request a quote at [www.magcomponent.com/contact.html](http://www.magcomponent.com/contact.html)**