

### COOL BLUE® - Ringbandkerne / COOL BLUE® - Tape wound cores



MAGNETEC liefert eine breite Auswahl an getragten **COOL BLUE®** Ringbandkernen aus **NANOPERM®** – nieder- und hochpermeabel. Die Kerne werden hauptsächlich in der Leistungselektronik eingesetzt, z.B. als hochimpedante EMV-Filterdrosseln, sättigungsfeste Speicherdrosseln, Leistungstransformatoren mit geringen Verlusten, Power Quality Drosseln zu Reduzierung von Motorlagerströmen u.v.m.

MAGNETEC supplies a wide range of cased **COOL BLUE®** tape wound cores made of **NANOPERM®** – low and high permeability. The cores are mainly used in power electronic applications, e.g. as high impedance EMC filter chokes, saturable storage chokes, power transformers with low losses, power quality chokes to reduce motor bearing currents a.s.o.

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| Type  | Abmessungen / Dimensions<br>nominal [mm] finished<br>d <sub>a</sub> x d <sub>i</sub> x h D <sub>a</sub> x D <sub>i</sub> x H |                | I <sub>fe</sub><br>[cm<br>] | a <sub>fe</sub><br>[cm <sup>2</sup> ] | μ<br>@ 10<br>kHz | A <sub>L</sub><br>@ 10kHz<br>[μH] | Ausführung /<br>Style | I <sub>sat</sub><br>I <sub>xN</sub><br>[AWd<br>g] |
|-------|------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|---------------------------------------|------------------|-----------------------------------|-----------------------|---------------------------------------------------|
| M-112 | 63 x 50 x 30                                                                                                                 | 68 x 43 x 36   | 17,7                        | 1,44                                  | 30.000           | 23,3–46,6                         | Standard              | 4                                                 |
| M-312 |                                                                                                                              |                |                             |                                       | 100              | 0,07–0,14                         | Cut                   | /                                                 |
| M-412 |                                                                                                                              |                |                             |                                       | 18.000           | 12,8–25,5                         | Standard              | 8                                                 |
| M-452 |                                                                                                                              |                |                             |                                       | 8.000            | 7,8–13,5                          | Standard              | 18                                                |
| M-612 |                                                                                                                              |                |                             |                                       | 45.000           | >45,0                             | Standard              | 3                                                 |
| M-113 | 80 x 63 x 30                                                                                                                 | 85 x 57 x 35,5 | 22,4                        | 2,04                                  | 30.000           | 24,1–48,2                         | Standard              | 6                                                 |
| M-313 |                                                                                                                              |                |                             |                                       | 100              | 0,07–0,14                         | Cut                   | /                                                 |
| M-413 |                                                                                                                              |                |                             |                                       | 18.000           | 13,2–26,4                         | Standard              | 10                                                |
| M-453 |                                                                                                                              |                |                             |                                       | 8.000            | 7,2–12,6                          | Standard              | 23                                                |
| M-613 |                                                                                                                              |                |                             |                                       | 45.000           | >46,0                             | Standard              | 4                                                 |
| M-114 | 100 x 80 x 30                                                                                                                | 105 x 75 x 35  | 28,2                        | 2,25                                  | 30.000           | 22,5–45,0                         | Standard              | 8                                                 |
| M-314 |                                                                                                                              |                |                             |                                       | 100              | 0,06–0,13                         | Cut                   | /                                                 |
| M-414 |                                                                                                                              |                |                             |                                       | 18.000           | 12,3–24,6                         | Standard              | 13                                                |
| M-454 |                                                                                                                              |                |                             |                                       | 8.000            | 7,3–12,7                          | Standard              | 28                                                |
| M-614 |                                                                                                                              |                |                             |                                       | 45.000           | >43,0                             | Standard              | 5                                                 |
| M-115 | 130 x 100 x 30                                                                                                               | 135 x 94 x 34  | 35,9                        | 3,60                                  | 30.000           | 24,6–52,9                         | Standard              | 9                                                 |
| M-315 |                                                                                                                              |                |                             |                                       | 100              | 0,08–0,15                         | Cut                   | /                                                 |
| M-415 |                                                                                                                              |                |                             |                                       | 18.000           | 14,5–29,0                         | Standard              | 16                                                |
| M-455 |                                                                                                                              |                |                             |                                       | 8.000            | 7,9–13,6                          | Standard              | 36                                                |
| M-615 |                                                                                                                              |                |                             |                                       | 45.000           | >51,0                             | Standard              | 7                                                 |
| M-116 | 160 x 130 x 30                                                                                                               | 165 x 123 x 34 | 45,4                        | 3,24                                  | 30.000           | 20,9–45,0                         | Standard              | 12                                                |
| M-316 |                                                                                                                              |                |                             |                                       | 100              | 0,06–0,12                         | Cut                   | /                                                 |
| M-416 |                                                                                                                              |                |                             |                                       | 18.000           | 11,4–23,0                         | Standard              | 20                                                |
| M-456 |                                                                                                                              |                |                             |                                       | 8.000            | 6,2–10,8                          | Standard              | 46                                                |
| M-616 |                                                                                                                              |                |                             |                                       | 45.000           | >40,0                             | Standard              | 8                                                 |
| M-117 | 200 x 175 x 30                                                                                                               | 208 x 166 x 37 | 58,8                        | 2,78                                  | 30.000           | 12,3–24,6                         | Standard              | 16                                                |
| M-317 |                                                                                                                              |                |                             |                                       | 100              | 0,04–0,08                         | Cut                   | /                                                 |
| M-417 |                                                                                                                              |                |                             |                                       | 18.000           | 7,4–14,7                          | Standard              | 26                                                |
| M-457 |                                                                                                                              |                |                             |                                       | 8.000            | 4,0–6,9                           | Standard              | 59                                                |
| M-617 |                                                                                                                              |                |                             |                                       | 45.000           | >26,0                             | Standard              | 11                                                |

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