

FORM F 108  
Revision: 05  
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Product specification  
for inductive components

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|               |             |               |       |               |       |
|---------------|-------------|---------------|-------|---------------|-------|
| Client:       | MAGNETEC    | Magnetec P/N: | M-451 | Magnetec A/N: | 12420 |
| Client's P/N: | /           | PS Index:     | 02    | PS Revision:  | 05    |
| Subject:      | EMC Wandler |               |       |               |       |

1. Mechanical Outline

|   |  |
|---|--|
| <p>Nominal equivalent round core:<br/><b>40 x 32 x 15</b></p> <p>Finished product dimensions:<br/>OD ≤ 43,1<br/>ID ≥ 28,8<br/>H ≤ 17,5</p> <p>[dimensions] = mm</p> |  |
|---|--|

2. Core data (nominal values)

|                     |           |                             |                              |
|---------------------|-----------|-----------------------------|------------------------------|
| Core material:      | NANOPERM® | $L_{Fe} = 11,26 \text{ cm}$ | $A_{Fe} = 0,45 \text{ cm}^2$ |
| Permeability level: | 8 000     | @ frequency<br>10 kHz       | @ H peak<br>3 mA/cm          |

3. Inspection values (at room temperature, unless otherwise stated)

| Measured value        | Measurement limits | Frequency | $I_{eff} \times N$ [mA x turn] |
|-----------------------|--------------------|-----------|--------------------------------|
| AL1 [ $\mu\text{H}$ ] | 2,82 - 5,62        | 10 kHz    | 24,0                           |
| AL2 [ $\mu\text{H}$ ] | 2,39 - 4,77        | 100 kHz   | 24,0                           |

4. Core finishing

|            |  |
|------------|--|
| Type:      | Cased  |
| Marking:   | MAGNETEC M-451-02 YM (YM = Year/Month), acc. to IEC 62 5.1 |
| Packaging: | 24 pcs. per layer; 5 layers per carton box; PU = 120 pcs.  |

5. Comments

Visit [http://www.magnetec.de/fileadmin/pdf/pb\\_ds.pdf](http://www.magnetec.de/fileadmin/pdf/pb_ds.pdf) for further information.

| Index / Revision | Alteration   | Date       |
|------------------|--|------------|
| 01 / 01          | Product Specification  | 04.01.2008 |
| 01 / 02          | AL limit and working point change  | 22.10.2010 |
| 02 / 03          | Case material Ultramid; Case height ≤ 17,4 mm and outer diameter ≤ 43,1 mm | 15.04.2011 |
| 02 / 04          | Marking corrected, PU = 120 pcs.   | 25.02.2013 |
| 02 / 05          | Harmonization of part and finished product dimensions                      | 17.01.2020 |

|          |                           |                   |                            |                     |                       |           |                          |
|----------|---------------------------|-------------------|----------------------------|---------------------|-----------------------|-----------|--------------------------|
| Created: | Z. Braxátor<br>17.01.2020 | Approved (Techn): | F. Záborszky<br>17.01.2020 | Approved (Quality): | G. Zsák<br>17.01.2020 | Released: | B. Kessler<br>17.01.2020 |
|----------|---------------------------|-------------------|----------------------------|---------------------|-----------------------|-----------|--------------------------|

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