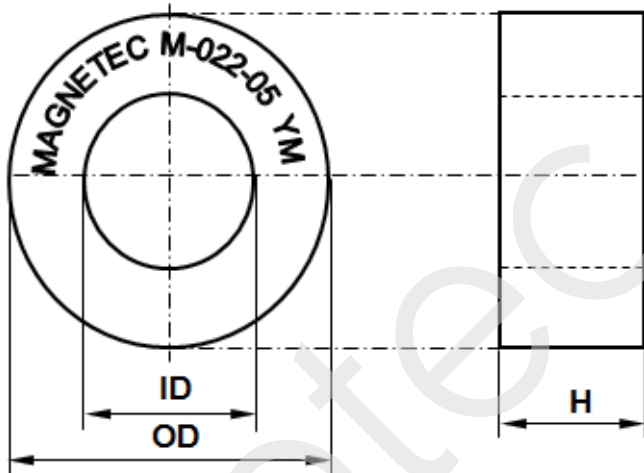


CONFIDENTIAL - Reproduction, publication and dissemination of this publication, enclosures hereto and the information contained therein is prohibited without MAGNETEC's prior written consent.

|                      |                    |                      |              |                     |           |
|----------------------|--------------------|----------------------|--------------|---------------------|-----------|
| <b>Client:</b>       | <b>MAGNETEC</b>    | <b>Magnetec P/N:</b> | <b>M-022</b> |                     |           |
| <b>Client's P/N:</b> | /                  | <b>PS Index:</b>     | <b>05</b>    | <b>PS Revision:</b> | <b>02</b> |
| <b>Subject:</b>      | <b>EMV Wandler</b> |                      |              |                     |           |

| 1. Mechanical Outline  |  |
|--|--|
| Nominal equivalent round core:<br><br><b>80 x 63 x 20</b><br><br>Finished product dimensions:<br><br>OD $\leq$ <b>83,0</b><br>ID $\geq$ <b>59,5</b><br>H $\leq$ <b>22,8</b><br><br>[dimensions] = mm |  |

| 2. Core data (nominal values) |                  |                              |                              |
|-------------------------------|------------------|------------------------------|------------------------------|
| Core material:                | <b>NANOPERM®</b> | $L_{Fe} = 22,36 \text{ cm}$  | $A_{Fe} = 1,28 \text{ cm}^2$ |
| Permeability level:           | <b>30.000</b>    | @ frequency<br><b>10 kHz</b> | @ H peak<br><b>3,2 mA/cm</b> |

| 3. Inspection values (at room temperature, unless otherwise stated) |                    |                |                      |
|---|--------------------|----------------|----------------------|
| Measured value  | Measurement limits | Frequency      | leff x N [mA x turn] |
| <b>AL [μH]</b>  | <b>15,1 - 30,1</b> | <b>10 kHz</b>  | <b>50</b>            |
| <b>AL [μH]</b>  | <b>7,5 - NA</b>    | <b>100 kHz</b> | <b>50</b>            |

| 4. Core finishing |  |
|-------------------|--|
| Type:             | <b>Epoxy coated</b>  |
| Marking:          | <b>MAGNETEC M-022-05 YM (YM = Year/Month), acc. to IEC 60062 6.1.1</b> |
| Packaging:        | <b>6 pcs. per layer; 4 layers per carton box; PU = 20 pcs.</b>         |

| 5. Comments  |
|--|
| Visit <a href="http://www.magnetec.de/fileadmin/pdf/pb_ds.pdf">http://www.magnetec.de/fileadmin/pdf/pb_ds.pdf</a> for further information. |

| Index / Revision | Alteration                           | Date       |
|------------------|--------------------------------------|------------|
| 04 / 00          | Product specification                | 04.04.2000 |
| 05 / 01          | AL = 15.1 - 30.1 μH / RoHS compliant | 01.12.2006 |
| 05 / 02          | Define 100kHz lower limit            | 28.08.2014 |

|                 |                          |                          |                              |                            |                         |                  |                        |
|-----------------|--------------------------|--------------------------|------------------------------|----------------------------|-------------------------|------------------|------------------------|
| <b>Created:</b> | Z. Palánki<br>28.08.2014 | <b>Approved (Techn):</b> | F. Zámboorszky<br>09.09.2014 | <b>Approved (Quality):</b> | J. Gulyás<br>09.09.2014 | <b>Released:</b> | T. Trupp<br>09.09.2014 |
|-----------------|--------------------------|--------------------------|------------------------------|----------------------------|-------------------------|------------------|------------------------|

CONFIDENTIAL - Reproduction, publication and dissemination of this publication, enclosures hereto and the information contained therein is prohibited without MAGNETEC's prior written consent. Disclosing the specification to third parties or using its content without written permission from MAGNETEC is strictly forbidden and every offender is liable to pay the corresponding damages.