| Magnetec | **Product specification for Inductive Components** | Form: Revision: | MF04.07 (F190) 02 |
|---|---|---|---|

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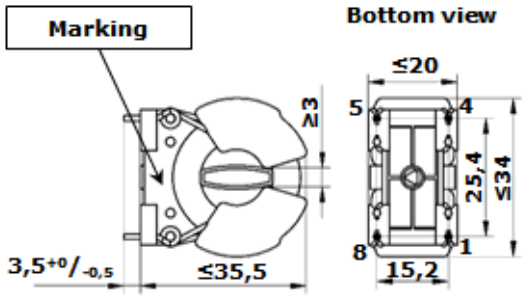
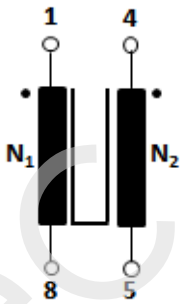
|---|---|---|---|---|---|
| **Client:** | **MAGNETEC** | **Magnetec P/N:** | **MB-639** | | |
| **Client's p/n:** | / | **PS Index:** | **01** | **PS Revision:** | 02 |
| **Subject:** | **EMC Component** | | | | |

## 1. Mechanical outline




**Wiring diagram**




## 2. Nominal values

| | | | |
|---|---|---|---|
| Core material: | **NANOPERM®** | High voltage strength: | **Up,eff = 2,5 kV** |
| Nominal voltage: | **250 Veff AC** | Ambient temperature: | **-40 ... +60 °C** |
| Nominal inductance: | **2 x 30 mH** | Max. operating temperature: | **°C** |
| Nominal current: | **8,5 A** | Storage temperature: | **-40 ... +85 °C** |
| Leakage inductances: | **~30 µH** | Design standard: | **EN 60938-1** |
| No. of turns: | **N1 = N2 = 22** | Wire diameter: | **1,12 mm** |
| Comments: | | | |

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

| Measured value | Measuring limits | Measuring configurations | |
|---|---|---|---|
| **Inductivity L1; L2 [mH]** | **25 - 44** | **f = 10 kHz** | **Ueff = 0,1 V** |
| **Inductivity L1; L2 [mH]** | **6,5 - 11,6** | **f = 100 kHz** | **Ueff = 0,1 V** |
| **Wire resistance Rcu1; Rcu2 [mOhms]** | **0 - 20** | **T = 23±3 °C** | |
| **HV strength between N1; N2** | **OK - NOK** | **Ueff = 2,5 kV** | **t = 2 s** |
| | **-** | | |

## 4. Others

| | |
|---|---|
| Marking: | **MAGNETEC MB-639-01 YM (YM = Year/Month), acc. to IEC 60062 6.1.1** |
| Packaging: | **21 pcs. per layer, 4 layers per carton box; PU = 84 pcs.** |
| Comments: | Visit http://www.magnetec.de/fileadmin/pdf/pb_ds.pdf for further information. |

| Index / Rev. | Alteration | Date |
|---|---|---|
| 01 / 01 | First issue | 24.01.2017 |
| 01 / 02 | Depth limit increase | 24.05.2014 |

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|---|---|---|---|---|---|---|---|
| **Created:** | Z. Palánki 24.05.2014 | **Approved (Techn):** | F. Zámborszky 21.06.2017 | **Approved (Quality):** | G. Zsák 21.06.2017 | **Released:** | T. Trupp |

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