Magnetec

Product specification for Inductive Components

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| Client: | MAGNE | IEC | Magnetec P/N | : MB-653 | | | | |
|--|---|---|---|---|--|-------------------------------|--|--|
| | | | | | | | | |
| Client's p/n: | / | | PS Index: | 01 | PS F | Revision: | 01 | |
| Subject: | EMC Co | mponent | | | | | | |
| 1. Mechanical o | outline | | | | | Wiri | ng diagram | |
| Top view | | | Bott | Bottom view | | 1 | 2 Б | |
| $ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \end{array}\\ \end{array}\\ \end{array}\\ \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \begin{array}{c} \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}$ \left(\begin{array}{c} \end{array}\\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \left(\begin{array}{c} \end{array} \\ \end{array} \\ \left(\end{array} \\ \end{array} \left(\begin{array}{c} \end{array} \\ \end{array} \left(\begin{array}{c} \end{array} \\ \left(\end{array} \\ \end{array} \\ \left(\end{array} \\ \end{array} \left(\end{array} \\ \left(\end{array} \\ \end{array} \left(\end{array} \\ \left(\end{array} \\ \end{array} \left) \\ \left(\end{array} \\ \left(\end{array} \\ \left(\end{array} \\ \left) \\ \left(\end{array} \\ \left(\end{array} \\ \end{array} \left) \\ \left(\end{array} \\ \left(\end{array} \\ \left) \\ \left(\end{array} \\ \left(\end{array} \\ \left) \\ \left(\end{array} \\ \left(\end{array} \\ \left) \\ \left(\end{array} \\ \left) \\ \left(\end{array} \\ \left) \\ \left(\end{array} \\ \left) \\ \left(\end{array} \\ \left(\end{array} \\ \left) \\ \left(\end{array} \left) \\ \left(\end{array} \\ \left(\end{array} \\ \left) \\ \left(\end{array} \left) \\ \left(\end{array} \\ \left) \\ \left(\end{array} \left) \\ | | | | | | | | |
| 2. Nominal value Core material: | | NOPEDM® | | High voltage st | rongth: | Up off | - 2.5 kV | |
| Nominal voltage: | | NANOPERM® 440 Veff AC | | High voltage strength: Ambient temperature: | | Up,eff = 2,5 kV -40 +70 °C | | |
| Nominal inductance: | | 4 mH | mH | | Max. operating temperature: | | °C | |
| Nominal current: | | Α | Storage tempe | | rature: | -40 +85 °C | | |
| Leakage inductances: | | . 19 μH | | Design standard: | | EN 60938-1 | | |
| No. of turns: | | = N2 = N3 = 14 | Wire diameter: | | | 2,24 mm | | |
| Comments: | | | | | | | | |
| 3 Inspection v | alues (at room | n temperature, unless o | therwise stated) | | | | | |
| o. inspection v | | | | · | L | | 6. 1. | |
| | Measured | value | | asuring limits | | uring co | onfigurations | |
| nductivity L1; L2 | Measured 2; L3 [mH] | value | Med | 2,5 - 5,5 | f = 10 kHz | uring co | Ueff = 0,1 V | |
| nductivity L1; L2 nductivity L1; L2 | Measured 2; L3 [mH] 2; L3 [mH] | | Med | 2,5 - 5,5 1,65 - NA | f = 10 kHz f = 100 kHz | uring co | | |
| Inductivity L1; L2 Inductivity L1; L2 Wire resistance | Measured 2; L3 [mH] 2; L3 [mH] Rcu1; Rcu2; | : Rcu3 [mOhms] 2; N3 / liso<1mA | Med | 2,5 - 5,5 | f = 10 kHz | | Ueff = 0,1 V | |
| Inductivity L1; L2 Inductivity L1; L2 Wire resistance HV strength bet | Measured 2; L3 [mH] 2; L3 [mH] Rcu1; Rcu2; | Rcu3 [mOhms] | Med | 2,5 - 5,5 1,65 - NA 0 - 4,8 | f = 10 kHz f = 100 kHz T = 23±3°C | | Ueff = 0,1 V Ueff = 0,1 V | |
| Inductivity L1; L2 Inductivity L1; L2 Wire resistance HV strength bet 4. Others | Measured 2; L3 [mH] 2; L3 [mH] Rcu1; Rcu2; ween N1; N | : Rcu3 [mOhms] 2; N3 / liso<1mA | Med | 2,5 - 5,5 1,65 - NA 0 - 4,8 OK - NOK - | f = 10 kHz f = 100 kHz T = 23±3°C Ueff = 2,5 kV | / | Ueff = 0,1 V Ueff = 0,1 V | |
| Inductivity L1; L2 Inductivity L1; L2 Wire resistance HV strength bet 4. Others Marking: | Measured 2; L3 [mH] 2; L3 [mH] Rcu1; Rcu2; ween N1; N; MAGNET | : Rcu3 [mOhms] 2: N3 / liso<1mA EC MB-653-01 YM | Mea (YM = Year/M | 2,5 - 5,5 1,65 - NA 0 - 4,8 OK - NOK - - | f = 10 kHz f = 100 kHz T = 23±3°C Ueff = 2,5 kV | / | Ueff = 0,1 V Ueff = 0,1 V | |
| Inductivity L1; L2 Inductivity L1; L2 Wire resistance HV strength bet HV strength bet A Others Marking: Packaging: | Measured 2; L3 [mH] 2; L3 [mH] Rcu1; Rcu2; ween N1; N: MAGNET 6 pcs. pe | : Rcu3 [mOhms] 2: N3 / Iiso<1mA EC MB-653-01 YM er layer, 3 layers j | Mea A (YM = Year/M per carton box | 2,5 - 5,5 1,65 - NA 0 - 4,8 OK - NOK - - lonth), acc. to II ; PU = 18 pcs. | f = 10 kHz f = 100 kHz T = 23±3°C Ueff = 2,5 k C 60062 6.1.1 | / | Ueff = 0,1 V Ueff = 0,1 V t = 2 s | |
| Inductivity L1; L2 Inductivity L1; L2 Wire resistance HV strength bet A. Others Marking: Packaging: Comments: | Measured 2; L3 [mH] 2; L3 [mH] Rcu1; Rcu2; ween N1; N: MAGNET 6 pcs. pe | EC MB-653-01 YM P://www.magne | Mea A (YM = Year/M per carton box | 2,5 - 5,5 1,65 - NA 0 - 4,8 OK - NOK - - lonth), acc. to II ; PU = 18 pcs. | f = 10 kHz f = 100 kHz T = 23±3°C Ueff = 2,5 k C 60062 6.1.1 | / | Ueff = 0,1 V Ueff = 0,1 V t = 2 s tion. | |
| Inductivity L1; L2 Inductivity L1; L2 Wire resistance HV strength bet HV strength bet A Others Marking: Packaging: | Measured 2; L3 [mH] 2; L3 [mH] Rcu1; Rcu2; ween N1; N: MAGNET 6 pcs. pe | EC MB-653-01 YM P://www.magne | Mea A (YM = Year/M per carton box | 2,5 - 5,5 1,65 - NA 0 - 4,8 OK - NOK - - lonth), acc. to II ; PU = 18 pcs. | f = 10 kHz f = 100 kHz T = 23±3°C Ueff = 2,5 k C 60062 6.1.1 | / | Ueff = 0,1 V Ueff = 0,1 V t = 2 s | |

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