



Product specification for Inductive Components

Form: MF04.07 (F190)
Revision: 01

Client:	MAGNETEC GmbH	Magnetec P/N:	MB-042	Magnetec A/N:	12117
Client's p/n:	/	PS Index:	02	PS Revision:	03
Subject:	EMC Component				

<p>1. Mechanical outline</p>	<p style="text-align: center;">Wiring diagram</p>
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**MAGNETEC
MB-042-02 YM**

2. Nominal values			
Core material:	NANOPERM®	High voltage strength:	$U_{p,eff} = 2,5 \text{ kV}$
Nominal voltage:	250 Veff AC	Ambient temperature:	$-40 \dots +60 \text{ }^\circ\text{C}$
Nominal inductance:	2 x 8,3 mH	Max. operating temperature:	$^\circ\text{C}$
Nominal current:	10 A	Storage temperature:	$-40 \dots +85 \text{ }^\circ\text{C}$
Leakage inductances:	ca. 9 μH	Design standard:	EN 60938-1
No. of turns:	$N1 = N2 = 12 \text{ turns}$	Wire diameter:	mm
Comments:	* Forced air cooling assumed		

3. Inspection values (at room temperature, unless otherwise stated)			
Measured value	Measuring limits	Measuring configurations	
Inductivity L1; L2 [mH]	5,6 - 14,0	f = 10kHz	$I_{eff} = 1 \text{ mA}$
Wire resistance Rcu1; Rcu2 [mOhms]	NA - 11,0	RT = 25 $^\circ\text{C}$	
HV strength between N1 and N2 / liso < 1mA	OK - NOK	$U_{p,eff} = 2,5 \text{ kV}$	t = 2s
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4. Others	
Marking:	"MAGNETEC MB-042-02 YM" (YM date of fabrication year/month)
Packaging:	30 pcs. per layer, 4 layers per carton box; PU = 120 pcs.
Comments:	Visit http://www.magnetec.de/fileadmin/pdf/pb_ds.pdf for further information.

Index / Rev.	Alteration	Date
01 / 00	Product Specification	09.07.2001
01 / 01	Separator MT-019.03	27.11.2003

02 / 02	RoHS conform	29.09.2005
02 / 03	New LN format;	22.03.2010

Created:	Á. Kovách	Approved (Techn):	F. Zámbořský	Approved (Quality):	V. Kaposztas	Released:	F. Rauscher
	22.03.2010		08.04.2010		09.04.2010		09.04.2010

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