

Power line chokes

I core chokes 500 V AC, 6 ... 95 A, 0.015 ... 5 mH

 Series/Type:
 B82506W

 Date:
 July 2012

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B82506W

Power line chokes

I core chokes

Rated voltage 500 V AC/600 V DC Rated current 6 ... 95 A Rated inductance 0.015 ...5 mH

Construction

- I core choke
- Rectangular plastic case
- Resin potting

Features

- Low power dissipation
- Suppression of broadband interference
- Compact design
- Suitable for wave soldering
- Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

Applications

- Suppression of symmetrical and asymmetrical interference
- High-performance power supplies
- Industrial applications

Terminals

Screw terminals M6

Marking

Manufacturer, ordering code, rated inductance, rated voltage, rated current, DC resistance, date of manufacture (MM.YY)

Delivery mode

Cardboard box

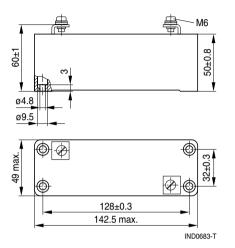




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Dimensional drawing



Tolerances to ISO 2768-C unless otherwise noted.

Dimensions in mm

Technical data and measuring conditions

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Rated voltage V _R	500 V AC (50/60 Hz) / 600 V DC	
	During operation between winding and metal parts	
	(VDE 0565-2).	
Test voltage V _{test}	2800 V AC, 2 s (winding/core)	
	2800 V AC, 2 s (winding/case)	
Rated temperature T _R	+60 °C	
Rated current I _R	Referred to 50 Hz and rated temperature	
Permissible operating current at 400 Hz	0.6 · I _R	
Rated inductance L _R	Measured with Agilent 4284A at 0.1 mA, +20 °C	
	Measuring frequency: $L_R \le 1 \text{ mH} = 100 \text{ kHz}$	
	$L_R > 1 \text{ mH} = 10 \text{ kHz}$	
Inductance tolerance	±20% at +20 °C	
DC resistance R _{typ}	Measured at +20 °C, typical values	
Storage conditions (packaged)	–25 °C … +40 °C, ≤ 75% RH	
Climatic category	40/125/56 (to IEC 60068-1)	
Weight	Approx. 900 1250 g	



Power line chokes

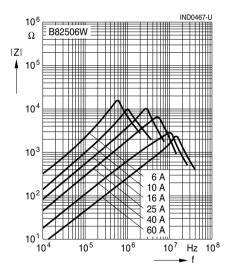
I core chokes

Characteristics and ordering codes

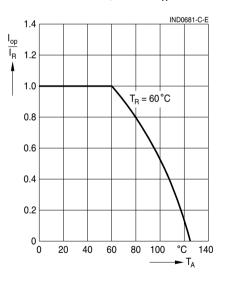
I _R	L _R	R _{typ}	Ordering code
А	mH	Ω	
6	5.0	0.350	B82506W0000A003
10	2.5	0.125	B82506W0000A004
16	1.5	0.050	B82506W0000A005
25	0.5	0.020	B82506W0000A006
40	0.2	0.008	B82506W0000A007
60	0.08	0.0035	B82506W0000A008
95	0.015	0.0015	B82506W0000A009

Impedance |Z| versus frequency f

measured at +20 °C, typical values



Current derating I_{op}/I_R versus ambient temperature T_A



B82506W



Cautions and warnings

- Please note the recommendations in our Inductors data book (latest edition) and in the data sheets.
 - Particular attention should be paid to the derating curves given there. Derating must be applied in case the ambient temperature in the application exceeds the rated temperature of the component.
 - Ensure the operation temperature (which is the sum of the ambient temperature and the temperature rise caused by losses / self-heating) of the component in the application does not exceed the maximum value specified in the climatic category.
 - The soldering conditions should also be observed. Temperatures quoted in relation to wave soldering refer to the pin, not the housing.
- If the components are to be washed varnished it is necessary to check whether the washing varnish agent that is used has a negative effect on the wire insulation, any plastics that are used, or on glued joints. In particular, it is possible for washing varnish agent residues to have a negative effect in the long-term on wire insulation.

Washing processes may damage the product due to the possible static or cyclic mechanical loads (e.g. ultrasonic cleaning). They may cause cracks to develop on the product and its parts, which might lead to reduced reliability or lifetime.

- The following points must be observed if the components are potted in customer applications:
 - Many potting materials shrink as they harden. They therefore exert a pressure on the plastic housing or core. This pressure can have a deleterious effect on electrical properties, and in extreme cases can damage the core or plastic housing mechanically.
 - It is necessary to check whether the potting material used attacks or destroys the wire insulation, plastics or glue.
 - The effect of the potting material can change the high-frequency behaviour of the components.
- Ferrites are sensitive to direct impact. This can cause the core material to flake, or lead to breakage of the core.
- Even for customer-specific products, conclusive validation of the component in the circuit can only be carried out by the customer.



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