

Inductors

DC/DC converters ER 11

 Series/Type:
 B78334B1033/B1034

 Date:
 March 2008

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DC/DC converters

B78334B1033/B1034

Dimensional drawing

min.

0.1

ER 11

0.2

max.

4

<u>ن</u>

<u>SMD</u>

Construction

■ ER 11 ferrite core with 10 gullwing terminals

Features

RoHS-compatible

Applications

- Low-power DC/DC converters
- Pulse transformers
- Broadband transformers
- Drive transformers for small-signal semiconductors

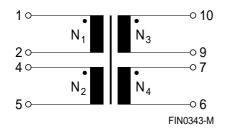
Marking

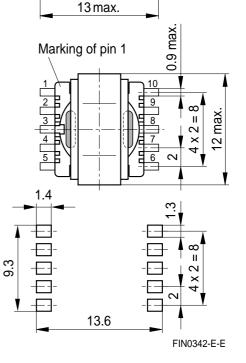
Manufacturer, middle block of ordering code, date code, pin1 marker

Delivery mode and packing unit

- 24-mm blister tape, 330-mm Ø reel
- Packing unit: 700 pcs./reel

Pinning





□ 0.2

Dimensions in mm

Technical data and measuring conditions

Main inductance L (1-2)	10 kHz, 100 mV
Test voltage V _{test}	50 Hz, 1 s; all windings against each other
Operating temperature range	–40 °C … +85 °C
Weight	Approx. 1.5 g

Characteristics and ordering codes

Ordering code	B78334B1033A003	B78334B1034A003		
Type/Core	ER 11	ER 11		
N_1 : N_2 : N_3 : N_4	1:1:1:1	1:1:1:1	1:1:1:1	
L	0.1 ±12%	1.08 +40/-30%	mH	
V _{test}	1000	1000	V AC	





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.
 - 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.
- 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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