



## **Inductors**

DC/DC converters  
ER 11

**Ordering code:**        **B78334B1018A003**

**Date:**                    **March 2008**

SMD

**Construction**

- ER 11 ferrite core with 10 gullwing terminals

**Features**

- RoHS-compatible

**Applications**

- Pulse transformers
- Drive transformers for power semiconductors (full bridge)

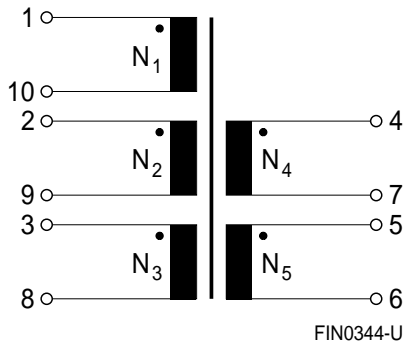
**Marking**

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

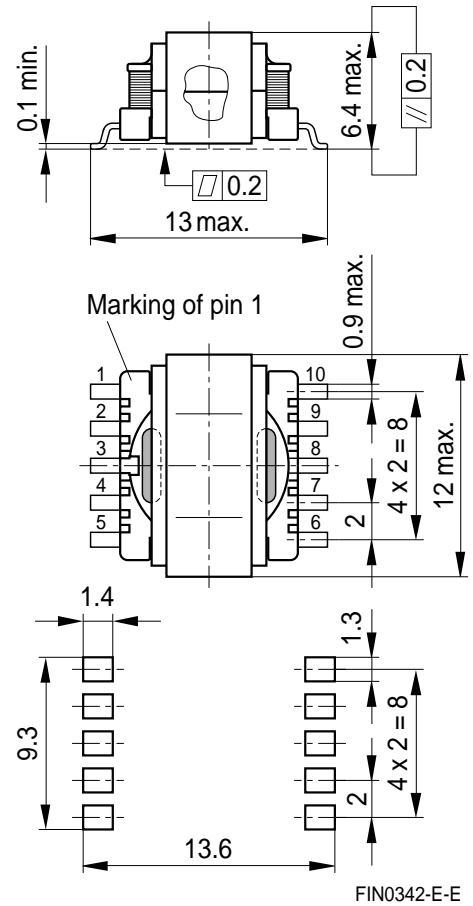
**Delivery mode and packing unit**

- 24-mm blister tape, 330-mm  $\varnothing$  reel
- Packing unit: 600 pcs./reel

**Pinning**



**Dimensional drawing**



Dimensions in mm

**Technical data and measuring conditions**

Main inductance L (1-10)	10 kHz, 10 mV
Test voltage $V_{test}$	50 Hz, 1 s
Operating temperature range	-40 °C ... +85 °C
Weight	Approx. 1.5 g

**Characteristics and ordering code**

Ordering code	B78334B1018A003	
Type/Core	ER 11	
$N_1 : N_2 : N_3 : N_4 : N_5$	0.382 : 1 : 1 : 1 : 1	
L	288.3 +40/-30%	$\mu$ H
$V_{test}$	1200	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.

## Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**.

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