



ISDN transformers

S₀ interface
R 10, > 22 mH, 1:1:1:1

Series/Type: **B78510A1452A003**

Date: October 2008

SMD

Applications

- Use in TE and NT/PBX
- Matched to Infineon ICs
PEB/PSB 21381 ... 21384

Features

- Complies with CCITT 1.430
- Remote power feeding to TE
- RoHS-compatible

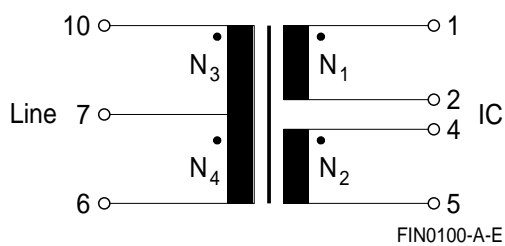
Marking

- Manufacturer, middle block of ordering code, date code

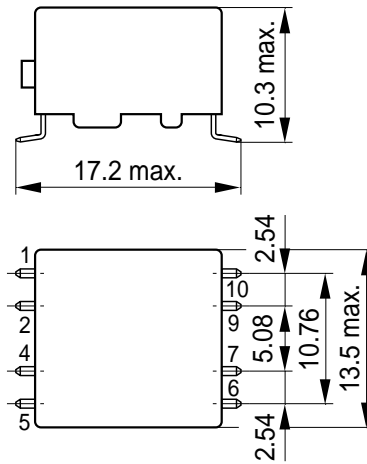
Delivery mode and packing unit

- 24-mm blister tape, 330-mm reel
- Packing unit: 500 pcs.

Pinning

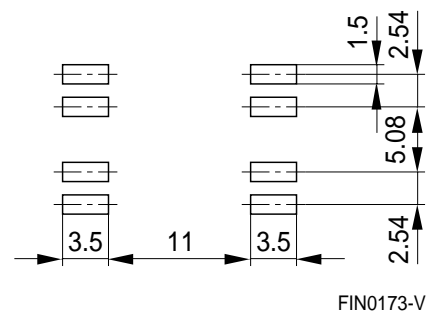


Dimensional drawing



FIN0172-N

Layout recommendation



Dimensions in mm

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Technical data and measuring conditions

Main inductance L (1-5)	10 kHz, 30 mV, short 2-4
Stray inductance L _{stray} (1-5)	10 kHz, 30 mV, short 2-4, 6-10
Interwinding capacitance C _i (1-10)	10 kHz, 100 mV, short 2-4
Resistance R _{DC (Line)} ; R _{DC (IC)}	R _{DC(Line)} : short 2-4; R _{DC(IC)} : –
Test voltage V _{test}	50 Hz, 1 s; N ₁ , N ₂ against N ₃ , N ₄
Operating temperature range	–25 °C ... +85 °C
Weight	Approx. 2.7 g

Characteristics and ordering code

(electrical specifications at 25 °C)

Ordering code	B78510A1452A003	
Type/Core	R 10	
N ₁ : N ₂ : N ₃ : N ₄	1 : 1 : 1 : 1	
L	> 22	mH
L _{stray} (typ.)	3.6	μH
C _i (typ.)	65	pF
R _{DC (Line)} (typ.)	2.0	Ω
R _{DC (IC)} (typ.)	2.2	Ω
V _{test}	2000	V AC
ΔI _{DC} (typ.)	3.3	mA

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

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