



## **ISDN transformers**

U<sub>K0</sub> interface, 4B3T  
RM 6, 7.7 mH, 1.32:1.32:1:1

**Series/Type:**            **B78386P1127A005**

**Date:**                    **October 2008**

**Applications**

- Use in NT and local central office
- Matched to the ICs  
Infineon PSB 8090, 20902, 24901, 24902;  
AMD AM20902;  
Mietec 2072

**Features**

- Complies with CCITT G.961
- Remote power feeding to NT
- RoHS-compatible

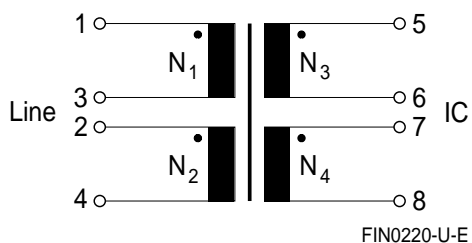
**Marking**

- Manufacturer, middle block of ordering code, date code

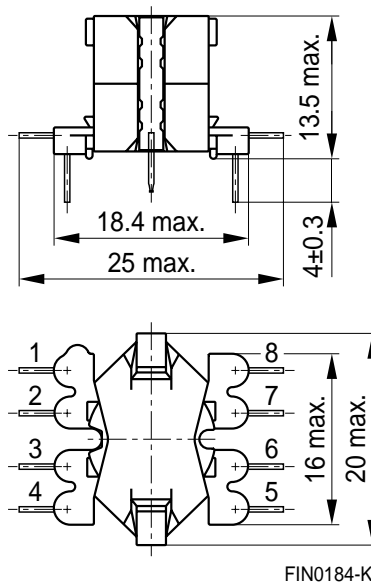
**Delivery mode and packing unit**

- Polyfoam tray
- Packing unit: 280 pcs.

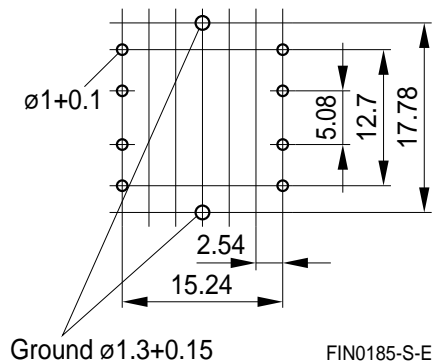
**Pinning**



**Dimensional drawing**



**Recommended hole arrangement (view in mounting direction)**



Dimensions in mm

**Technical data and measuring conditions**

Main inductance L (1-4)	10 kHz, 100 mV, short 2-3
Stray inductance L <sub>stray</sub> (1-4)	10 kHz, 100 mV, short 2-3, 6-7, 5-8
Interwinding capacitance C <sub>i</sub> (5-1)	100 kHz, 100 mV, short 2-3, 6-7
Resistance R <sub>DC (Line)</sub> ; R <sub>DC (IC)</sub>	R <sub>DC (Line)</sub> : short 2-3; R <sub>DC (IC)</sub> : short 6-7
Test voltage V <sub>test</sub>	50 Hz, 1 s; N <sub>1</sub> , N <sub>2</sub> against N <sub>3</sub> , N <sub>4</sub>
DC current I <sub>DC</sub>	With I <sub>DC</sub> bias L drops < 5%
Transmission code	4B3T
Operating temperature range	-25 °C ... +85 °C
Weight	Approx. 8 g

**Characteristics and ordering code**

(electrical specifications at 25 °C)

Ordering code	B78386P1127A005	
Type/Core	RM 6	
N <sub>1</sub> : N <sub>2</sub> : N <sub>3</sub> : N <sub>4</sub>	1.32 : 1.32 : 1 : 1	
L	7.7 ± 10 %	mH
L <sub>stray</sub> (typ.)	40	μH
C <sub>i</sub> (typ.)	45	pF
R <sub>DC (Line)</sub> (typ.)	3.8	Ω
R <sub>DC (IC)</sub> (typ.)	3.8	Ω
V <sub>test</sub>	2500	V AC
I <sub>DC</sub> (typ.)	60	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

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**.

As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.

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