

# **ISDN** transformers

U<sub>K0</sub> interface, 2B1Q RM 8, 14.5 mH, 0.8:0.8:1

Series/Type: B78388P1254A005
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# Transformers for information technology (ISDN)

## U<sub>K0</sub> interface, 2B1Q

B78388P1254A005

#### **RM 8**

# Applications

- Use in NT and local central office
- Matched to the ICs
   Infineon PSB 8091, 8193,
   24902, 24911;
   AMD AM2091

## Features

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

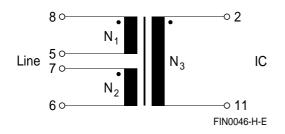
## Marking

 Manufacturer, middle block of ordering code, date code

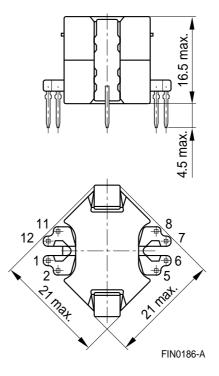
# Delivery mode and packing unit

- Polyfoam tray
- Packing unit: 320 pcs.

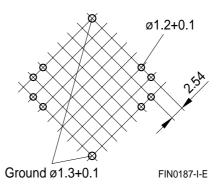
# Pinning



## **Dimensional drawing**



Recommended hole arrangement (view in mounting direction)



Dimensions in mm



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## Technical data and measuring conditions

Main inductance L (8-6)	10 kHz, 100 mV, short 5-7	
Stray inductance L <sub>stray</sub> (8-6)	10 kHz, 100 mV, short 5-7, 2-11	
Interwinding capacitance C <sub>i</sub> (2-8)	100 kHz, 50 mV, short 5-7	
Resistance R <sub>DC (Line)</sub> ; R <sub>DC (IC)</sub>	R <sub>DC(Line)</sub> : short 5-7; R <sub>DC(IC)</sub> : –	
Test voltage V <sub>test</sub>	50 Hz, 1 s; $N_1$ , $N_2$ against $N_3$	
DC current I <sub>DC</sub>	With $I_{DC}$ bias L drops < 5 %	
Transmission code	2B1Q	
Operating temperature range	–25 °C +85 °C	
Weight	Approx. 15 g	

# Characteristics and ordering code

(electrical specifications at 25 °C)

Ordering code	B78388P1254A005		
Type/Core	RM 8	RM 8	
$N_1$ : $N_2$ : $N_3$	0.8 : 0.8 : 1	0.8 : 0.8 : 1	
L	14.5 ±10%	mH	
L <sub>stray</sub> (typ.)	63	μH	
C <sub>i</sub> (typ.)	90	pF	
R <sub>typ (Line)</sub>	2.8	Ω	
R <sub>typ (IC)</sub>	2.7	Ω	
V <sub>test</sub>	2000	V AC	
I <sub>DC</sub> (typ.)	60	mA	

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# 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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