



ADSL interface transformer

for Conexant IC Viking/Atlas G7000 DTM
EP 13, 444.5 μ H, 1:1.6:1.6:1

Ordering code: **B78421A6603A003**

Date: **March 2008**

SMD

Application

- Matched to Conexant IC Viking/Atlas G7000 DTM
- Annex A

Feature

- RoHS-compatible

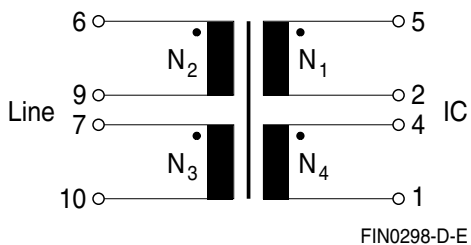
Marking

- Manufacturer, middle block of ordering code, date code

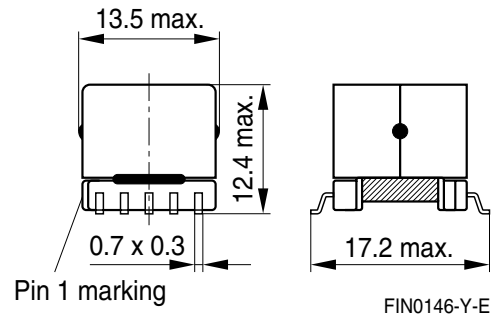
Delivery mode and packing unit

- 32-mm blister tape
- Packing unit: 180 pcs.

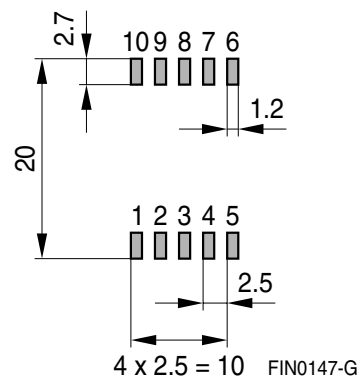
Pinning



Dimensional drawing



Layout recommendation



Dimensions in mm

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Technical data and measuring conditions

Main inductance L (6-10)	10 kHz, 100 mV, short 7-9
Stray inductance L_{stray} (6-10)	100 kHz, 100 mV, short 7-9, 1-2-4-5
Resistance $R_{\text{DC (Line)}}$; $R_{\text{DC (IC)}}$	$R_{\text{DC (Line)}}$: short 7-9; $R_{\text{DC (IC)}}$: short 2-4
Test voltage V_{test}	50 Hz, 1 s; N_1 , N_4 against N_2 , N_3
Operating temperature range	-40 °C ... +85 °C
Weight	Approx. 6.0 g

Characteristics and ordering code

(electrical specifications at 25 °C)

Ordering code	B78421A6603A003	
Type/Core	EP 13	
$N_1 : N_2 : N_3 : N_4$	1 : 1.6 : 1.6 : 1	
L	444.5 ±5 %	μH
L_{stray} (typ.)	4	μH
$R_{\text{DC (Line)}}$ (typ.)	4	mΩ
$R_{\text{DC (IC)}}$ (typ.)	2	mΩ
V_{test}	2000	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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