

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Low profile Size $2.8 \times 2.6 \times 1.0$ (mm)

Series/Type: B82467G0

Date: October 2008



B82467G0

Size $2.8 \times 2.6 \times 1.0$ (mm)

Preliminary data

SMD

Rated inductance 0.5 μ H to 22 μ H Rated current 0.38 A to 2.25 A



Construction

- Magnetically shielded
- Special ferrite core shape
- Winding: enamel copper wire
- Winding welded to terminals

Features

- Low profile
- Temperature range up to 125 °C
- High rated current
- Low DC resistance
- Suitable for lead-free reflow soldering
- RoHS-compatible

Applications

- Filtering of supply voltages
- Coupling, decoupling
- DC/DC converters
- Handheld devices (e.g. mobile phones, MP3 players, etc.)
- EDP (Electronic Data Processing)
- Consumer electronics

Terminals

- Base material CuSn6P
- Layer composition Ni, Sn (lead-free)
- Electro-plated

Marking

- Marking on component: To be determined
- Minimum data on reel: Manufacturer, ordering code, L value, quantity, date of packing

Delivery mode and packing unit

- 8-mm blister tape, wound on 180-mm Ø reel
- Packing unit: 3000 pcs./reel



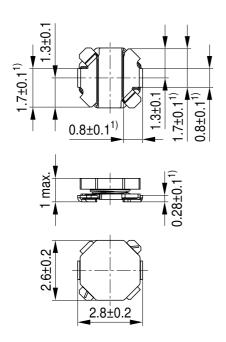
B82467G0

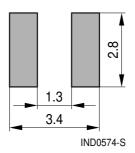
Size $2.8 \times 2.6 \times 1.0$ (mm)

Preliminary data

SMD

Dimensional drawing and layout recommendation





1) Soldering area

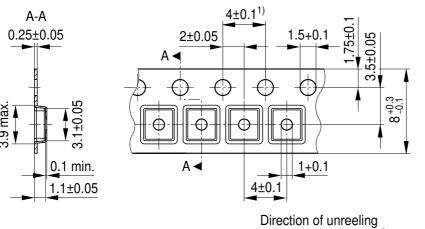
IND0573-A-E

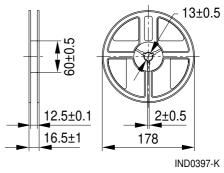
Dimensions in mm

Taping and packing

Blister tape

Reel





1) Limit tolerance over 10 pitches ±0.2

IND0831-B-E

Dimensions in mm



B82467G0

Size 2.8 \times 2.6 \times 1.0 (mm)

Preliminary data

SMD

Technical data and measuring conditions

Rated inductance L _R	Measured with LCR meter Agilent 4284A at frequency f _L , 0.1 V, 20 °C		
Rated temperature T _R	85 °C		
Rated current I _R	Max. permissible DC with temperature increase of \leq 40 K at rated temperature		
Saturation current I _{sat,typ}	Max. permissible DC with inductance decrease $\Delta L/L_0$ of approx. 30%, typical values		
DC resistance R _{typ}	Measured at 20 °C, tolerance ±20%, typical values		
Solderability (lead-free)	Dip and look method Sn95.5Ag3.8Cu0.7: (245 \pm 5) °C, (3 \pm 0.3) s Wetting of soldering area \geq 90% (based on IEC 60068-2-58)		
Resistance to soldering heat	260 °C, 10 s (based on IEC 60068-2-58)		
Climatic category	55/125/56 (to IEC 60068-1)		
Storage conditions	Mounted: -55 °C +125 °C Packaged:-25 °C +40 °C, ≤75% RH		
Weight	Approx. 0.2 g		

Characteristics and ordering codes

L _R	Tolerance	f_L	I _R	I _{sat,typ}	R _{typ}	Ordering code
μΗ		MHz	Α	Α	Ω	
0.5	±20% ≙ M	0.1	2.25	2.00	0.030	B82467G0501M000
1.0		0.1	1.60	1.475	0.050	B82467G0102M000
1.5		0.1	1.25	1.150	0.075	B82467G0152M000
2.2		0.1	1.15	0.950	0.100	B82467G0222M000
3.3		0.1	0.93	0.775	0.165	B82467G0332M000
4.7		0.1	0.80	0.675	0.215	B82467G0472M000
6.8		0.1	0.67	0.580	0.290	B82467G0682M000
10		0.1	0.55	0.480	0.485	B82467G0103M000
15		0.1	0.46	0.370	0.690	B82467G0153M000
22		0.1	0.38	0.320	0.960	B82467G0223M000



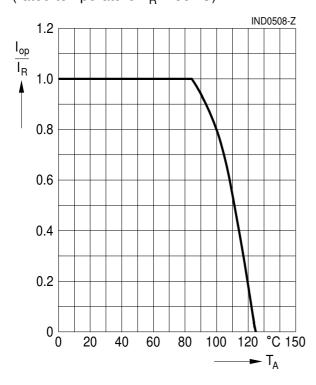
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Size $2.8\times2.6\times1.0$ (mm)

Preliminary data

SMD

Current derating I_{op}/I_R versus ambient temperature T_A (rated temperature $T_R = 85 \, ^{\circ}\text{C}$)





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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