

Size $10.4 \times 10.4 \times 4.8$ (mm)

Series/Type: B82464Z4

Date: March 2008

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B82464Z4

Size $10.4 \times 10.4 \times 4.8$ (mm)

SMD

Rated inductance 0.82 μ H to 1000 μ H Rated current 0.34 A to 7.6 A

Construction

- Ferrite core
- Magnetically shielded
- Winding: enamel copper wire
- Winding welded to terminals

Features

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

Applications

- Filtering of supply voltages
- Coupling, decoupling
- DC/DC converters
- Telecom, EDP, consumer electronics
- Industrial electronics

Terminals

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

Marking

- Marking on component:
 Manufacturer, L value (μH, coded),
 manufacturing date (YWWD)
- Minimum data on reel: Manufacturer, ordering code, L value, quantity, date of packing

Delivery mode and packing unit

- \blacksquare 24-mm blister tape, wound on 330-mm \varnothing reel
- Packing unit: 750 pcs./reel

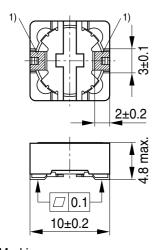


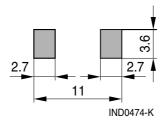
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Dimensional drawing and layout recommendation





Marking

10.4 max.

1) Soldering area

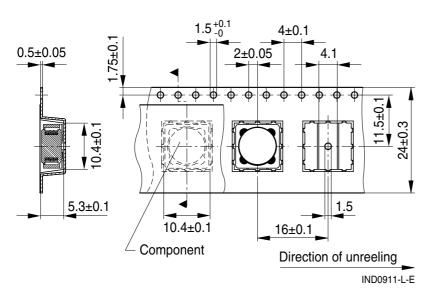
IND0603-T-E

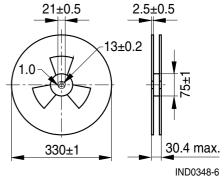
Dimensions in mm

Reel

Taping and packing

Blister tape





Dimensions in mm



查询"B82464Z4821M000"供应商

SMT power inductors

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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}	Max. permissible DC with inductance decrease $\Delta L/L_0$ of approx. 10%			
DC resistance R _{max}	Measured at 20 °C			
Solderability (lead-free)	Dip and look method Sn95.5Ag3.8Cu0.7: (245 ± 5) °C, (5 ± 0.3) s, Wetting of soldering area $\geq 90\%$ (based on IEC 60068-2-58)			
Resistance to soldering heat	260 °C, 10 s (as referenced in JEDEC J-STD 020C)			
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. 2 g			



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Characteristics and ordering codes

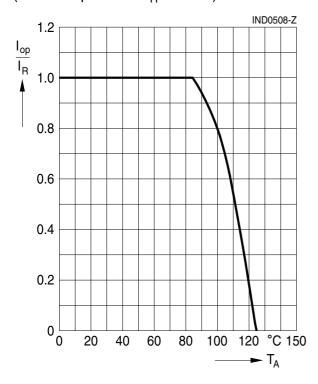
L_{R}	Tolerance	f_{L}	I _R	I _{sat}	R _{max}	Ordering code
μΗ		MHz	Α	Α	Ω	
0.82	±20% ≙ M	0.1	7.60	10.3	0.007	B82464Z4821M000
1.0		0.1	7.50	10.0	0.007	B82464Z4102M000
1.5		0.1	7.00	8.50	0.009	B82464Z4152M000
2.2		0.1	6.50	7.00	0.010	B82464Z4222M000
3.3		0.1	5.50	5.90	0.012	B82464Z4332M000
4.7		0.1	4.90	5.20	0.015	B82464Z4472M000
6.8		0.1	4.30	4.60	0.020	B82464Z4682M000
10		0.1	3.40	3.50	0.030	B82464Z4103M000
15		0.1	2.75	3.10	0.040	B82464Z4153M000
22		0.1	2.25	2.50	0.052	B82464Z4223M000
33		0.1	1.85	2.10	0.075	B82464Z4333M000
47		0.1	1.55	1.80	0.095	B82464Z4473M000
68		0.1	1.30	1.45	0.13	B82464Z4683M000
100		0.1	1.05	1.15	0.22	B82464Z4104M000
150		0.1	0.85	0.90	0.32	B82464Z4154M000
220		0.1	0.70	0.75	0.44	B82464Z4224M000
330		0.1	0.59	0.65	0.65	B82464Z4334M000
470		0.1	0.50	0.55	0.93	B82464Z4474M000
680		0.1	0.42	0.46	1.30	B82464Z4684M000
1000		0.1	0.34	0.35	2.20	B82464Z4105M000

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Current derating I_{op}/I_R versus ambient temperature T_A (rated temperature $T_R = 85$ °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.

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