



SMT power inductors

Size 10 x 10 mm

Series/Type:	B82464G2
Date:	January 2006
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Size 10x10 mm
Rated inductance 0,82 – 330 μ H

Construction

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

Features

- Wide temperature range
- Very high rated current
- Low DC resistance
- Suitable for reflow soldering

Applications

- Filtering of supply voltages
- Coupling, decoupling
- DC/DC converters
- Automotive electronics

Terminals

- Tinned

Marking

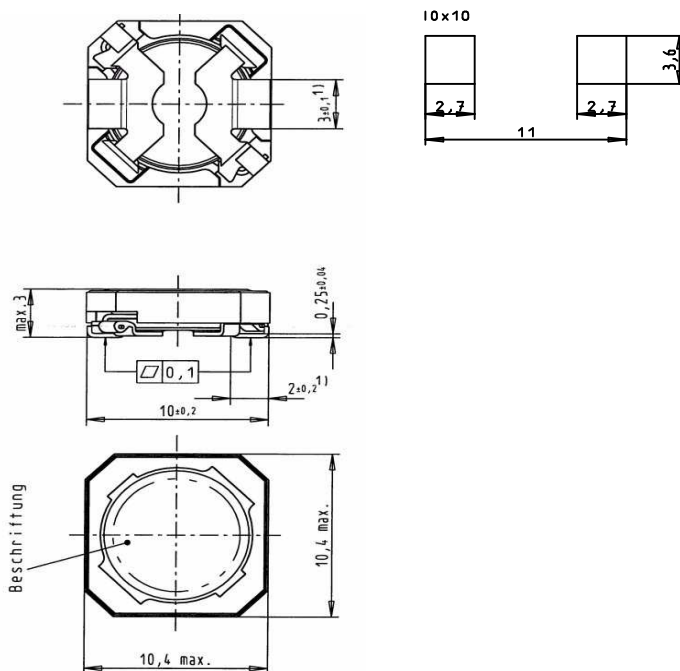
Marking on component:
Manufacturer, L value (μ H, coded), tolerance (coded)
Minimum marking on reel:
Manufacturer, part number, ordering code,
L value and tolerance
quantity, date of packing

Delivery mode

16-mm blister tape, reel packing, 1250 pcs. per reel


General technical data

Rated inductance L_R	Measured with HP 4294A , measuring voltage 100 mV
Rated current I_R	Maximum permissible DC with temperature increase of ≤ 40 K at ambient temperature of 85°C
Saturation current $I_{\text{Sat,typ}}$	Maximum permissible DC with inductance decrease $\Delta L/L_0 \approx 10\%$
Climatic category	In accordance with IEC 60068-1 55/125/56 ($-55^\circ\text{C}/ +125^\circ\text{C}/ 56$ days damp heat test)
Solderability	5s, 235°C , wetting $> 90\%$
DC resistance R_{max}	Measured at 20°C ambient temperature
Weight	Approx. 2g

Dimensional drawing and layout recommendation



Characteristics and ordering codes

L_R μH	f_L MHz	Tolerance	I_{sat} A	I_R A	R_{max} Ω	Ordering code
0,82	0,1	20 %	7,50	6,20	0,0075	B82464G2821M000
1,2	0,1	20 %	6,80	5,60	0,009	B82464G2122M000
2,0	0,1	20 %	5,40	4,50	0,014	B82464G2202M000
2,7	0,1	20 %	4,25	3,85	0,019	B82464G2272M000
3,9	0,1	20 %	3,45	3,45	0,027	B82464G2392M000
4,7	0,1	20 %	3,10	3,10	0,033	B82464G2472M000
7,5	0,1	20 %	2,65	2,60	0,047	B82464G2752M000
10	0,1	20 %	2,25	2,25	0,062	B82464G2103M000
15	0,1	20 %	1,85	1,80	0,090	B82464G2153M000
22	0,1	20 %	1,52	1,50	0,130	B82464G2223M000
33	0,1	20 %	1,25	1,20	0,195	B82464G2333M000
47	0,1	20 %	1,10	1,12	0,235	B82464G2473M000
68	0,1	20 %	0,88	0,91	0,370	B82464G2683M000
100	0,1	20 %	0,73	0,75	0,530	B82464G2104M000
150	0,1	20 %	0,59	0,61	0,84	B82464G2154M000
220	0,1	20 %	0,49	0,50	1,20	B82464G2224M000
330	0,1	20 %	0,40	0,41	1,60	B82464G2334M000

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