SMD

Size 7x7 mm
Rated inductance 1 µH .. 1000 µH

Construction

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

Features

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

Applications

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

Terminals

- Leadfree tinned

Marking

Marking on component:
L value (in µH), date code

Minimum marking on reel:
Manufacturer, part number, ordering code,
L value and tolerance
quantity, date of packing

Delivery mode

16mm–Blister tape, reel packing
packaging quantity 1000pcs/reel

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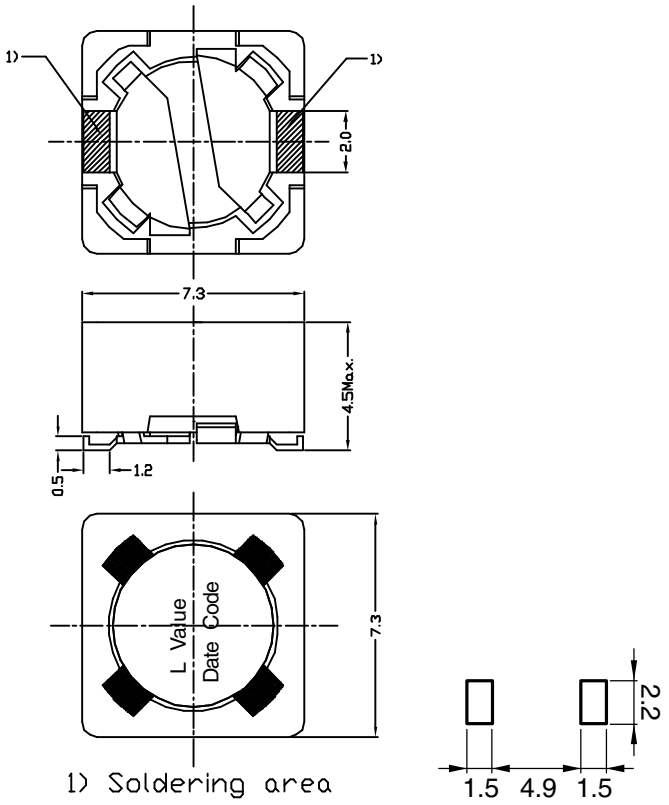
General technical data

Rated inductance L_R	Measured with HP 4284A, measuring voltage 100 mV
DC resistance R_{max}	Measured at 20 °C ambient temperature
Rated current I_R	Maximum permissible DC with temperature increase of ≤ 40 K at ambient temperature of 85 °C
Saturation current I_{Sat}	Maximum permissible DC with inductance decrease $\Delta L/L_0 \approx 10\%$
Climatic category	In accordance with IEC 60068–1 55/125/56 (–55 °C/ +125 °C/ 56 days damp heat test)
Solderability	5s, 235°C, wetting > 90%
Weight	Approx. 1,5g

Dimensional drawing and layout recommendation



tolerances +/–0,2mm

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Characteristics and ordering code

L_R µH	f_L kHz	Tolerance	I_R A	I_{Sat} A	R_{max} Ω	Ordering code
1,0	100	20 %	3,60	3,30	0,015	B82472–G6102–M
1,5	100	20 %	3,40	3,00	0,017	B82472–G6152–M
2,2	100	20 %	3,00	2,80	0,020	B82472–G6222–M
3,3	100	20 %	2,85	2,50	0,023	B82472–G6332–M
4,7	100	20 %	2,50	2,00	0,030	B82472–G6472–M
6,8	100	20 %	2,15	1,70	0,040	B82472–G6682–M
10	100	20 %	1,90	1,40	0,053	B82472–G6103–M
15	100	20 %	1,53	1,35	0,080	B82472–G6153–M
22	100	20 %	1,45	1,30	0,091	B82472–G6223–M
33	100	20 %	1,15	1,05	0,15	B82472–G6333–M
47	100	20 %	1,00	0,90	0,20	B82472–G6473–M
68	100	20 %	0,82	0,68	0,26	B82472–G6683–M
100	100	20 %	0,67	0,55	0,39	B82472–G6104–M
150	100	20 %	0,53	0,43	0,58	B82472–G6154–M
220	100	20 %	0,43	0,36	0,88	B82472–G6224–M
330	100	20 %	0,33	0,30	1,70	B82472–G6334–M
470	100	20 %	0,29	0,25	2,00	B82472–G6474–M
680	100	20 %	0,25	0,20	2,75	B82472–G6684–M
1000	100	20 %	0,20	0,15	3,85	B82472–G6105–M

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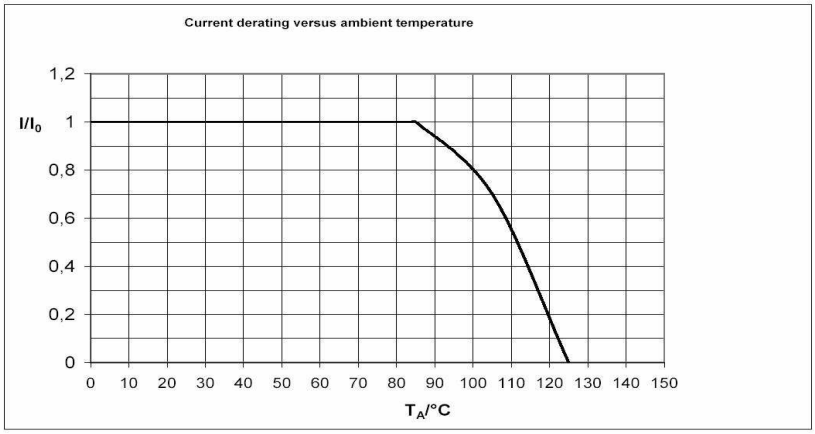
Typical diagrams:



Impedance versus frequency