



SMT-Power-Inductors

B82471

DATA SHEET

**SMD**

**Rated inductance 10  $\mu$ H .. 220  $\mu$ H**

### Construction

- Ferrite core
- Winding: enamel copper wire
- Winding soldered to terminals
- Plastic terminal carrier

### Features

- High rated current
- Low DC resistance
- Suitable for reflow soldering (IR and vapor phase)

### Applications

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

### Terminals

- Tinned

### Marking

Marking on component:  
Manufacturer, L value (in  $\mu$ H)

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  
packaging quantity 2000pcs/reel



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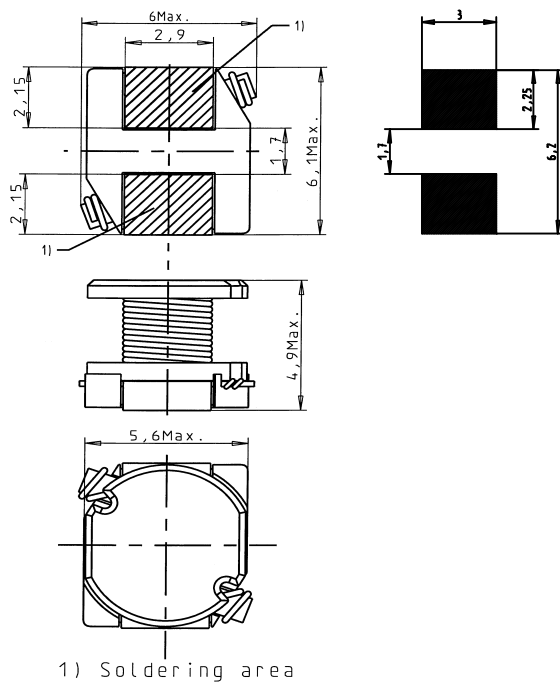
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## General technical data

Rated inductance $L_R$	Measured with HP 4284A , measuring voltage 100 mV
Rated current $I_R$	Maximum permissible DC with temperature increase of $\leq 40$ 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%
DC resistance $R_{max}$	Measured at 20 °C ambient temperature
Weight	Approx. 1 g

## Dimensional drawing and layout recommendation





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**SMD****Characteristics and ordering codes**

$L_R$ $\mu\text{H}$	$f_L$ MHz	Tolerance	$I_R$ A	$I_{\text{Sat}}$ A	$R_{\text{max}}$ $\Omega$	Ordering code
10	0,1	20 %	1,44	1,80	0,10	B82471-A1103-M
15	0,1	20 %	1,30	1,45	0,14	B82471-A1153-M
22	0,1	20 %	1,11	1,20	0,18	B82471-A1223-M
33	0,1	20 %	0,88	1,00	0,23	B82471-A1333-M
47	0,1	20 %	0,72	0,85	0,37	B82471-A1473-M
68	0,1	10 %	0,61	0,70	0,46	B82471-A1683-K
100	0,1	10 %	0,52	0,60	0,70	B82471-A1104-K
150	0,1	10 %	0,40	0,48	1,10	B82471-A1154-K
220	0,1	10 %	0,35	0,38	1,57	B82471-A1224-K