



SMT–Power–Inductors

B82471

DATA SHEET



Rated inductance 10 μ H .. 220 μ 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 μ H)

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

Delivery mode

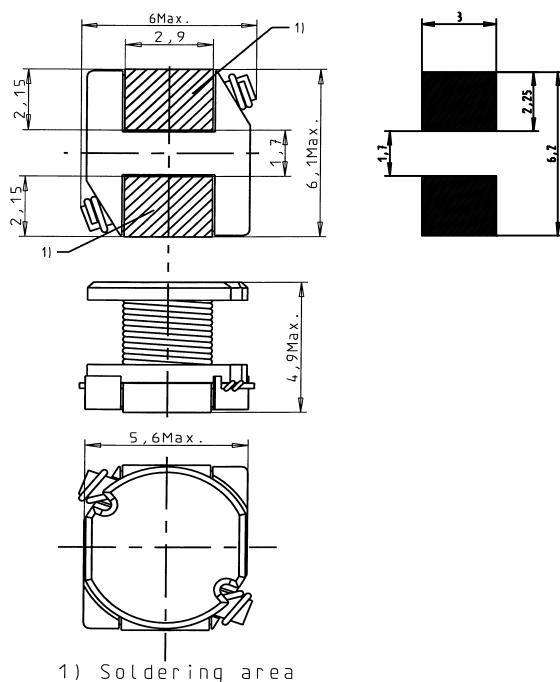
16–mm blister tape , reel packing
packaging quantity 2000pcs/reel



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 ≤ 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 ($-55^\circ\text{C}/+125^\circ\text{C}/56$ days damp heat test)
Solderability	5s, 235°C , wetting $> 90\%$
DC resistance R_{max}	Measured at 20°C ambient temperature
Weight	Approx. 1 g

Dimensional drawing and layout recommendation



**SMT-Power-Inductors****B82471****DATA SHEET****Characteristics and ordering codes**

L_R μH	f_L MHz	Tolerance	I_R A	I_{Sat} A	R_{max} Ω	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