

## B82464A4

SMT power inductors

B82464A4

Size 10.4 x 10.4 x 4.8 (mm)

SMD

Rated inductance 1 ... 1000 µH

Rated current 0.33 ... 7 A

### Construction

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

### Features

- Temperature range up to +150 °C
- High rated current
- Low DC resistance
- Suitable for lead-free reflow soldering as referenced in JEDED J-STD 020D
- Qualified to AEC-Q200
- RoHS-compatible

### Applications

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

### Terminals

- Base material CuFe2P
- Layer composition Ag, Sn (lead-free)
- Electro-plated

### Marking

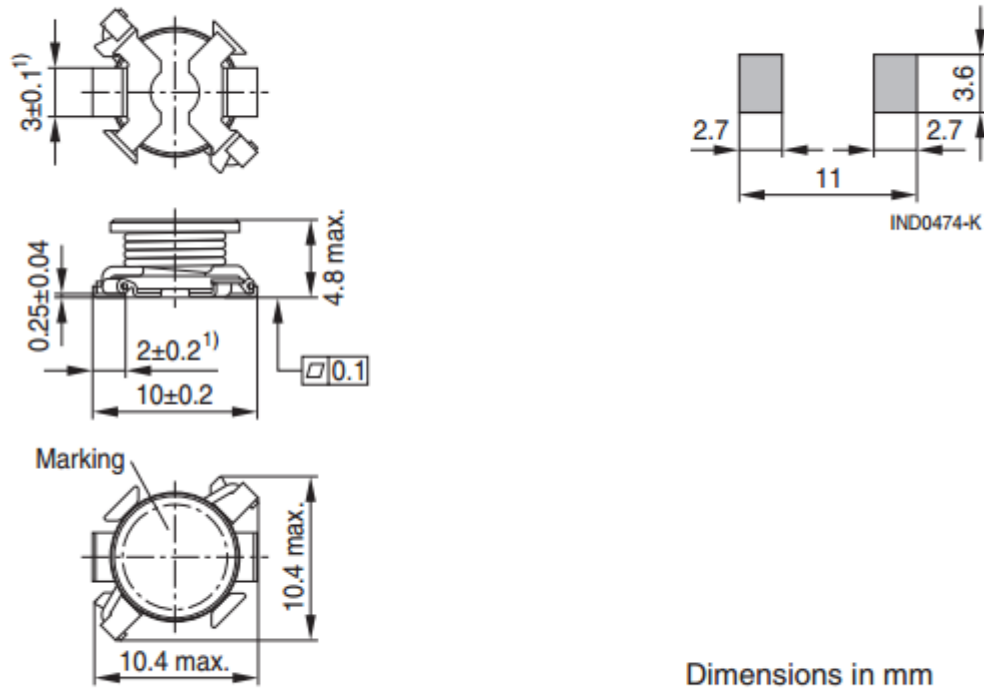
- Marking on component:  
Manufacturer, L value (nH, coded),  
L tolerance (coded), manufacturing date (YWWD),  
two last digits of work order
- Minimum data on reel:  
Manufacturer, ordering code, L value,  
quantity, date of packing

### Delivery mode and packing unit

- 16-mm blister tape, wound on 330-mm Ø reel
- Packing unit: 750 pcs./reel



**Dimensional drawing and layout recommendation**



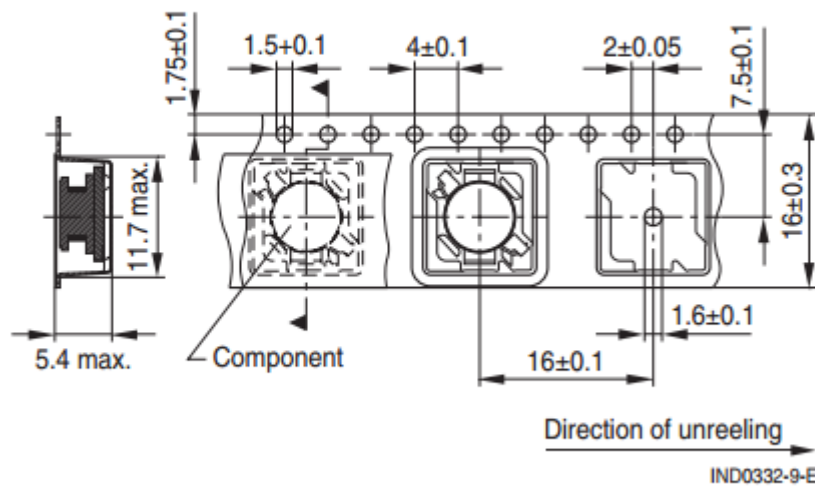
Dimensions in mm

1) Soldering area

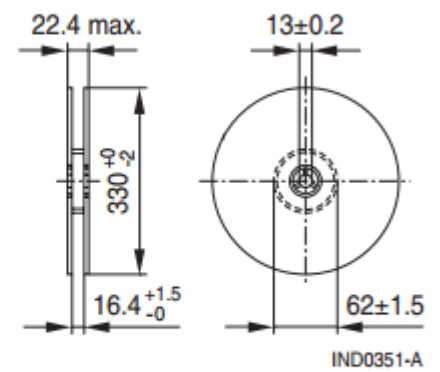
IND0476-L-E

**Taping and packing**

Blister tape



Reel



Dimensions in mm

**SMD****Technical data and measuring conditions**

Rated inductance $L_R$	Measured with impedance analyzer Agilent 4294A 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 $\pm$ 5) °C, (5 $\pm$ 0.3) s Wetting of soldering area $\geq 90\%$ (based on IEC 60068-2-58)
Resistance to soldering heat	+260 °C, 40 s (as referenced in JEDEC J-STD 020D)
Climatic category	55/150/56 (to IEC 60068-1)
Storage conditions	Mounted: -55 °C ... +150 °C Packaged: -25 °C ... +40 °C, $\leq 75\%$ RH
Weight	Approx. 1.1 g

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

$L_R$ $\mu\text{H}$	Tolerance	$f_L$ MHz	$I_R$ A	$I_{sat}$ A	$R_{max}$ $\Omega$	Ordering code
1.0	$\pm 20\% \triangleq M$	0.1	7.00	11	0.009	B82464A4102M000
1.5		0.1	6.50	9.8	0.010	B82464A4152M000
2.2		0.1	5.70	8.4	0.012	B82464A4222M000
3.3		0.1	4.90	6.6	0.015	B82464A4332M000
4.7		0.1	4.30	5.6	0.018	B82464A4472M000
6.8		0.1	3.50	4.7	0.027	B82464A4682M000
10		0.1	2.90	3.9	0.038	B82464A4103M000
15	$\pm 10\% \triangleq K$	0.1	2.50	3.2	0.046	B82464A4153K000
22		0.1	2.10	2.6	0.085	B82464A4223K000
33		0.1	1.80	2.2	0.10	B82464A4333K000
47		0.1	1.50	1.8	0.14	B82464A4473K000
68		0.1	1.25	1.5	0.20	B82464A4683K000
100		0.1	1.03	1.2	0.28	B82464A4104K000
150		0.1	0.86	1.0	0.40	B82464A4154K000
220		0.1	0.69	0.85	0.61	B82464A4224K000
330		0.1	0.58	0.70	1.00	B82464A4334K000
470		0.1	0.50	0.55	1.27	B82464A4474K000
680		0.1	0.40	0.45	2.00	B82464A4684K000
1000		0.1	0.33	0.38	3.00	B82464A4105K000

Sample kit available. Ordering code: B82464X004  
For more information refer to chapter "Sample kits".