



**Size 4,8 x 4,8 x 1,2 mm**  
**Rated inductance 1  $\mu$ H .. 47  $\mu$ H**

### Construction

- Ferrite core
- Plastic protection case
- Winding: enamel copper wire
- Winding welded to terminals

### Features

- Low profile
- High rated current
- Low DC resistance
- Suitable for lead free reflow soldering

### Applications

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

### Terminals

- Lead free tinned

### Marking

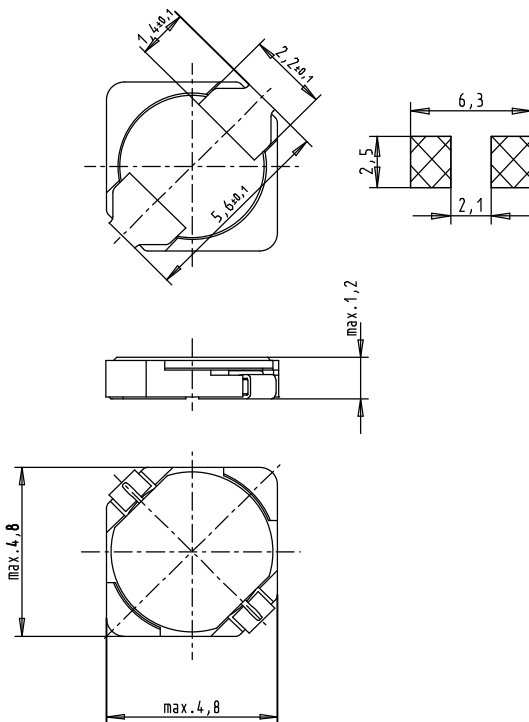
Marking on component:  
Manufacturer, L-value (coded in  $\mu$ H), date code  
Minimum marking on reel:  
Manufacturer, part number, ordering code,  
L value and tolerance  
quantity, date of packing

### Delivery mode

Blister tape 12 mm, reel packing  $\varnothing$  180 mm  
packaging quantity 1000 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 $\leq 40$ K at ambient temperature of $85\text{ }^\circ\text{C}$ or inductance decrease $\Delta L/L_0 \leq 10\%$
Climatic category	In accordance with IEC 60068-1 55/125/56 ( $-55\text{ }^\circ\text{C}$ / $+125\text{ }^\circ\text{C}$ / 56 days damp heat test)
Solderability	3 s, $235\text{ }^\circ\text{C}$ , wetting $> 90\%$
DC resistance $R_{\max}$	Measured at $20\text{ }^\circ\text{C}$ ambient temperature
Weight	Approx. 0,2 g

**Dimensional drawing and layout recommendation**



**Characteristics and ordering codes**

$L_R$ $\mu\text{H}$	$f_L$ MHz	Tolerance	$I_R$ A	$R_{\text{max}}$ $\Omega$	Ordering code
1	0,1	20 %	1,80	0,045	B82470-A1102-M
1,2	0,1	20 %	1,60	0,060	B82470-A1122-M
2,2	0,1	20 %	1,35	0,090	B82470-A1222-M
3,3	0,1	20 %	1,10	0,120	B82470-A1332-M
4,7	0,1	20 %	0,95	0,190	B82470-A1472-M
6,8	0,1	20 %	0,85	0,228	B82470-A1682-M
10	0,1	20 %	0,75	0,305	B82470-A1103-M
15	0,1	20 %	0,58	0,480	B82470-A1153-M
22	0,1	20 %	0,48	0,690	B82470-A1223-M
33	0,1	20 %	0,38	1,10	B82470-A1333-M
47	0,1	20 %	0,32	1,50	B82470-A1473-M



Typical diagrams:

