



**Size 12x12 mm**  
**Rated inductance 1,0..1000  $\mu$ H**

### Construction

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

### Features

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

### Applications

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

### Terminals

- Tinned

### Marking

Marking on component:

Manufacturer

L value (in  $\mu$ H)

Date code

Minimum marking on reel:

Manufacturer, part number, ordering code,

L value and tolerance

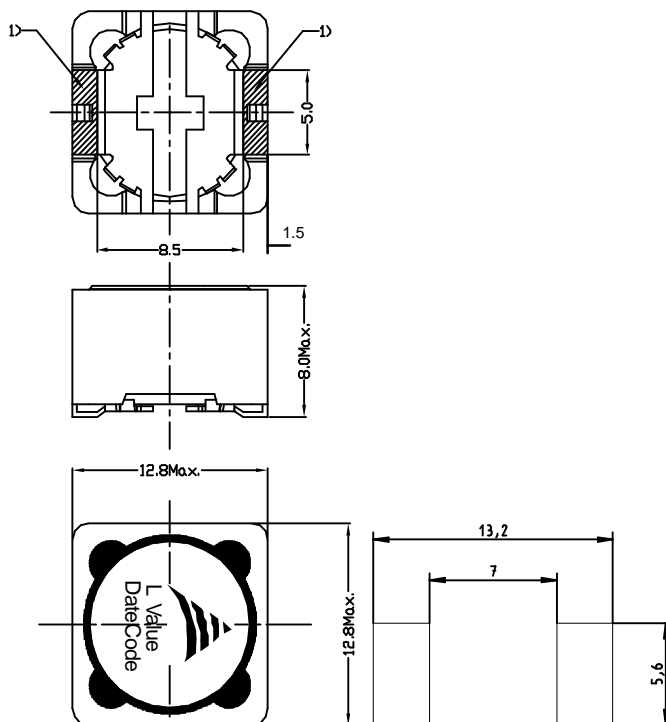
quantity, date of packing

### Delivery mode

Blister tape 24mm, reel packing  $\varnothing$  330mm  
packaging quantity 400 pcs/reel

**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 $\leq 40$ 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%
Weight	Approx. 4g

**Dimensional drawing and layout recommendation**


1) Soldering area

tolerances  $\pm 0,2$  mm unless otherwise noted


**Characteristics and ordering code**

$L_R$ $\mu\text{H}$	$f_L$ kHz	Tolerance	$I_R$ A	$I_{\text{Sat}}$ A	$R_{\text{max}}$ $\Omega$	Ordering code
1,0	100	20 %	9,80	15,00	0,007	B82477-G4102-M
2,2	100	20 %	8,00	11,00	0,010	B82477-G4222-M
3,9	100	20 %	7,50	9,50	0,0125	B82477-G4392-M
4,7	100	20 %	6,80	8,60	0,0140	B82477-G4472-M
5,6	100	20 %	6,70	8,40	0,0142	B82477-G4562-M
6,8	100	20 %	6,50	7,30	0,0185	B82477-G4682-M
10	100	20 %	5,40	6,40	0,022	B82477-G4103-M
15	100	20 %	4,50	5,25	0,027	B82477-G4153-M
22	100	20 %	3,60	4,25	0,038	B82477-G4223-M
33	100	20 %	3,00	3,50	0,053	B82477-G4333-M
47	100	20 %	2,50	3,00	0,082	B82477-G4473-M
68	100	20 %	2,10	2,45	0,120	B82477-G4683-M
82	100	20 %	1,90	2,25	0,145	B82477-G4823-M
100	100	20 %	1,70	1,95	0,165	B82477-G4104-M
150	100	20 %	1,42	1,70	0,225	B82477-G4154-M
220	100	20 %	1,16	1,35	0,380	B82477-G4224-M
330	100	20 %	0,95	1,15	0,600	B82477-G4334-M
470	100	20 %	0,80	0,95	0,790	B82477-G4474-M
680	100	20 %	0,68	0,78	1,240	B82477-G4684-M
1000	100	20 %	0,55	0,65	1,680	B82477-G4105-M