



Size 6x6 mm

Rated inductance 0,82 μH .. 1000 μH

Construction

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

Features

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

Applications

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

Terminals

- Leadfree tinned

Marking

Marking on component:

Manufacturer

L value (in μH) and tolerance (coded)

Date code

Minimum marking on reel:

Manufacturer, part number, ordering code,

L value and tolerance

quantity, date of packing

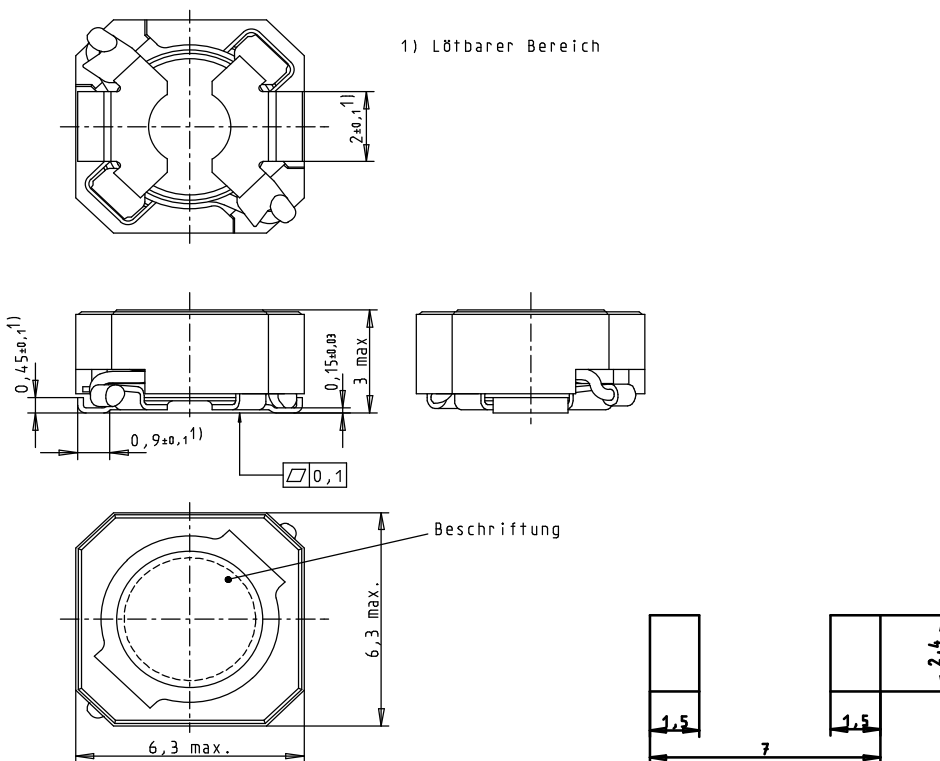
Delivery mode

Blister tape 12mm, reel packing

packaging quantity 2500 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 ≤ 40 K at ambient temperature of 85 °C
Saturation current	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%
Resistance to soldering heat	acc. to IEC 60068-2-58, leadfree reflow soldering profile
Self-resonance frequency f_{res}	Measured with network analyzer HP 8753
DC resistance R_{max}	Measured at 20 °C ambient temperature
Weight	Approx. 1,5g

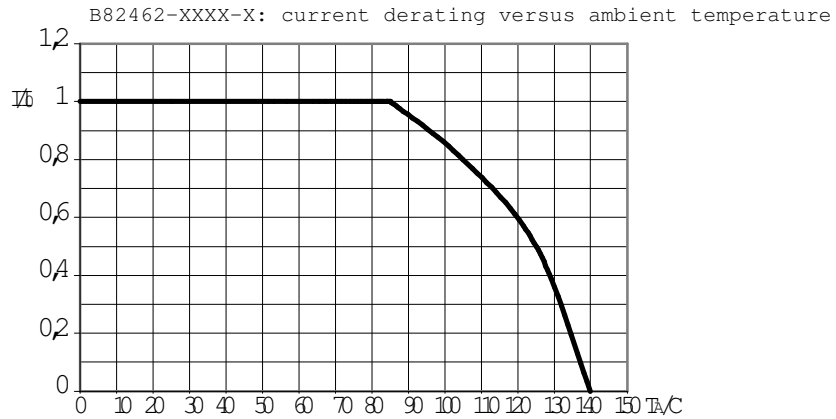
Dimensional drawing



Characteristics and ordering codes

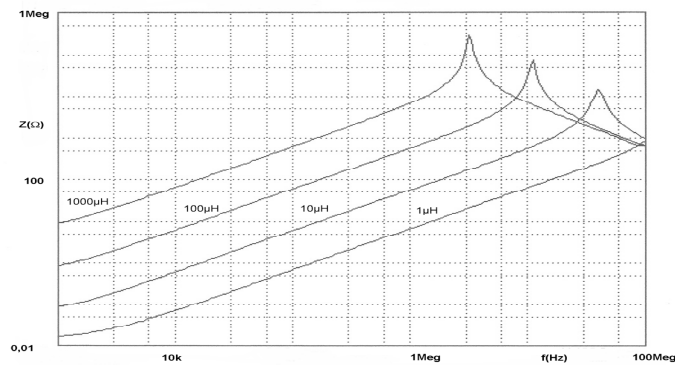
L_R μH	f_L MHz	Tolerance	I_{sat} A	I_R A	R_{max} Ω	$f_{\text{res,typ}}$ MHz	Ordering code
0,82	0,1	20 %	4,45	3,45	0,015	182	B82462-G4821-M
1,0	0,1	20 %	4,40	3,40	0,016	180	B82462-G4102-M
1,2	0,1	20 %	3,90	3,25	0,017	130	B82462-G4122-M
1,5	0,1	20 %	3,60	3,10	0,020	100	B82462-G4152-M
2,2	0,1	20 %	2,60	2,55	0,025	75	B82462-G4222-M
3,3	0,1	20 %	2,10	2,30	0,031	60	B82462-G4332-M
4,7	0,1	20 %	1,80	2,00	0,040	55	B82462-G4472-M
6,8	0,1	20 %	1,50	1,65	0,050	40	B82462-G4682-M
10	0,1	20 %	1,30	1,50	0,062	31	B82462-G4103-M
15	0,1	20 %	1,05	1,25	0,097	23	B82462-G4153-M
22	0,1	20 %	0,85	1,05	0,15	20	B82462-G4223-M
33	0,1	20 %	0,72	0,85	0,23	16	B82462-G4333-M
47	0,1	20 %	0,60	0,75	0,31	13	B82462-G4473-M
68	0,1	20 %	0,50	0,65	0,41	10	B82462-G4683-M
100	0,1	20%	0,42	0,53	0,58	8,5	B82462-G4104-M
150	0,1	20 %	0,33	0,38	1,05	6,5	B82462-G4154-M
220	0,1	20 %	0,28	0,35	1,35	5,5	B82462-G4224-M
330	0,1	20 %	0,22	0,27	2,30	4,5	B82462-G4334-M
470	0,1	20 %	0,18	0,24	2,70	3,5	B82462-G4474-M
680	0,1	20 %	0,15	0,20	4,05	3,0	B82462-G4684-M
1000	0,1	20 %	0,13	0,16	6,00	2,5	B82462-G4105-M



Typical diagrams:



Impedance versus frequency



Inductance derating versus load current

