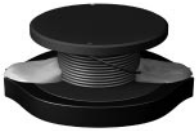
SMD

Rated inductance 10 to 1000 µH
Rated current 560 to 4300 mA



Construction

- Ferrite core
- Winding: enamel copper wire
- Plastic terminal carrier
- Winding soldered to terminals

Features

- Very 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
- Telecommunications

Terminals

- Tinned Sn/Pb

Marking

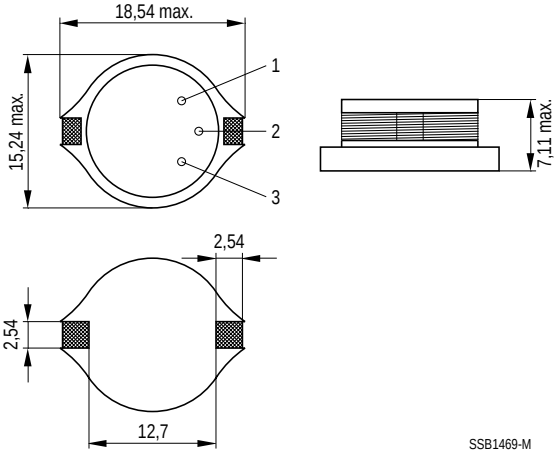
Color coding based on IEC 60062

Delivery mode

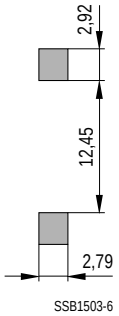
24-mm blister tape, reel packing
For details on taping, packing and packing units see page 155

SMD

Dimensional drawing



Layout recommendation



Marking

1 = 1st digit of inductance value
2 = 2nd digit of inductance value
3 = multiplier, i. e. multiplies the first two digits by the power of ten (standard unit μH)

Color code	1st dot = 1st digit	2nd dot = 2nd digit	3rd dot = multiplier
Gold			$\times 10^{-1}$ = 0,1
Black		0	$\times 10^{0}$ = 1
Brown	1	1	$\times 10^{1}$ = 10
Red	2	2	$\times 10^{2}$ = 100
Orange	3	3	$\times 10^{3}$ = 1000
Yellow	4	4	
Green	5	5	
Blue	6	6	
Violet		7	
Grey		8	

Example:

1st dot	2nd dot	3rd dot	Coding
Blue 6	Grey 8	Brown $\times 10$	 = 68 $\times$ 10 μH = 680 μH

SMD

General technical data

Rated inductance L_R	Measured with HP 4194A at 100 kHz, measuring current ≤ 1 mA
Rated current I_R	Maximum permissible dc with inductance decrease $\Delta L/L_0$ ≤10 % and temperature increase of ≤ 40 K at rated temperature of 85 °C
DC resistance R_{max}	Measured at 20 °C ambient temperature
Climatic category	In accordance with IEC 60068-1 40/085/56 (– 40 °C/+ 85 °C/56 days damp heat test)
Solderability	5 s, 235 °C, wetting >90 %
Weight	Approx. 3 g

Characteristics and ordering codes

L_R µH	Tolerance	I_R mA	R_{max} Ω	Ordering code
10	± 20 % ≙ M	4300	0,032	B82479-A1103-M
15		4000	0,036	B82479-A1153-M
22		3500	0,047	B82479-A1223-M
33		3000	0,066	B82479-A1333-M
47		2600	0,087	B82479-A1473-M
68		2300	0,13	B82479-A1683-M
100		1800	0,19	B82479-A1104-M
150		1500	0,25	B82479-A1154-M
220		1200	0,38	B82479-A1224-M
330		1000	0,56	B82479-A1334-M
470		820	0,85	B82479-A1474-M
680		720	1,20	B82479-A1684-M
1000		560	1,80	B82479-A1105-M