

EPCOS AG is a TDK Group Company.

SMD

**Rated inductance 0.44 .... 20 µH**
**Saturation current 15 ... 71 A**


## Construction

- High temperature ferrite core
- Magnetically shielded
- Helical winding
- Self-leaded construction
- Under body termination

## Features

- High rated current
- Extremely low DC resistance
- Very low profile and extremely small footprint
- Suitable for pick-and-place processes
- RoHS-compatible
- Easily customized

## Applications

Energy storage chokes for
- DC/DC converters
- VRM modules
- POL converters
- Solar converters

## Terminals

Lead-free tinned

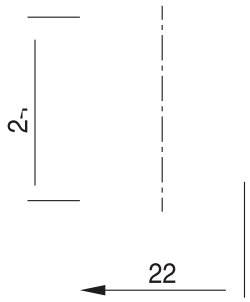
## Marking

Manufacturer, ordering code, date of manufacture and production place (YYWWD/X),

## Delivery mode and packing units

- Tray
- Blister tape on request

## Dimensional drawing and layout recommendation




Dimensions in mm

## Packing (tray)

| Height (mm) | | Packing unit | |
|---|---|---|---|
| component h | tray H | per tray | per box |
| 9.6 | 19 | 40 | 280 |
| 11.1 | 21 | 40 | 280 |
| 12.8 | 23 | 40 | 240 |
| 14.6 | 23 | 40 | 240 |

### Inductance L versus DC load current $I_{DC}$

The temperature rise ÷T is measured at an ambient temperature of +25 °C. A current is applied for 30 minutes and the temperature is measured via a thermocouple placed on top of the device. No forced air cooling is applied.

The inductance vs current curves are generated by measuring the chokes at +25 °C and +100 °C.

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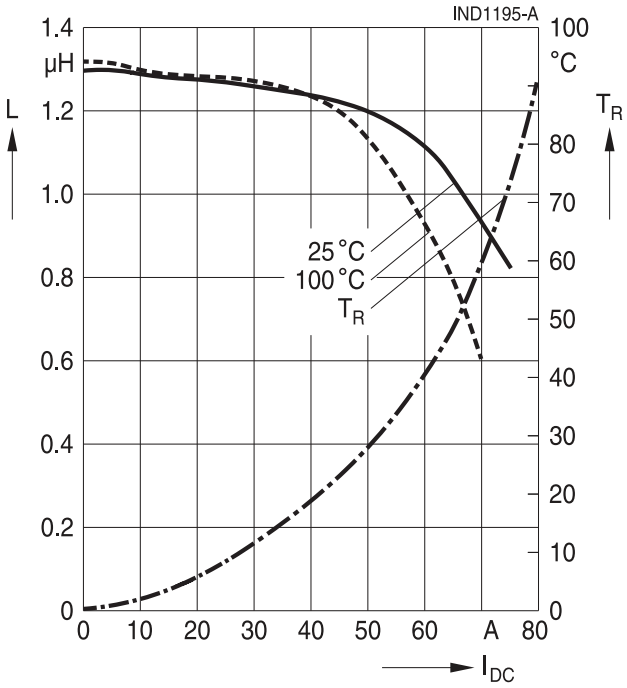


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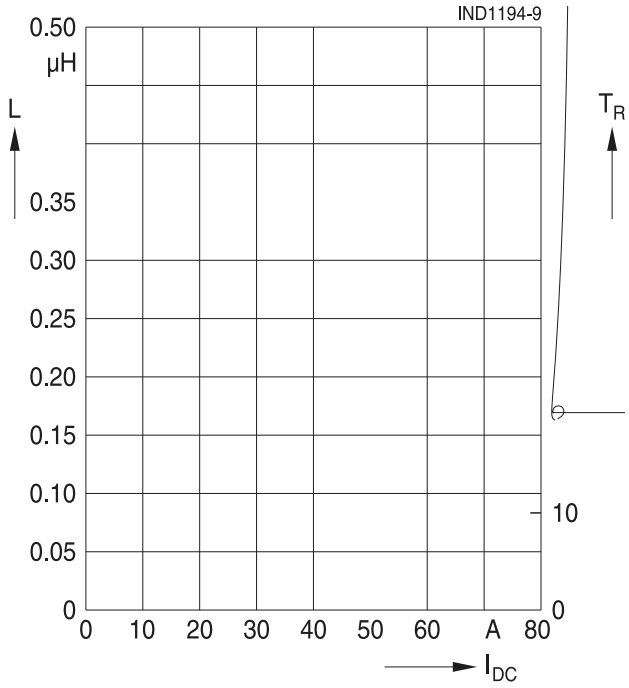


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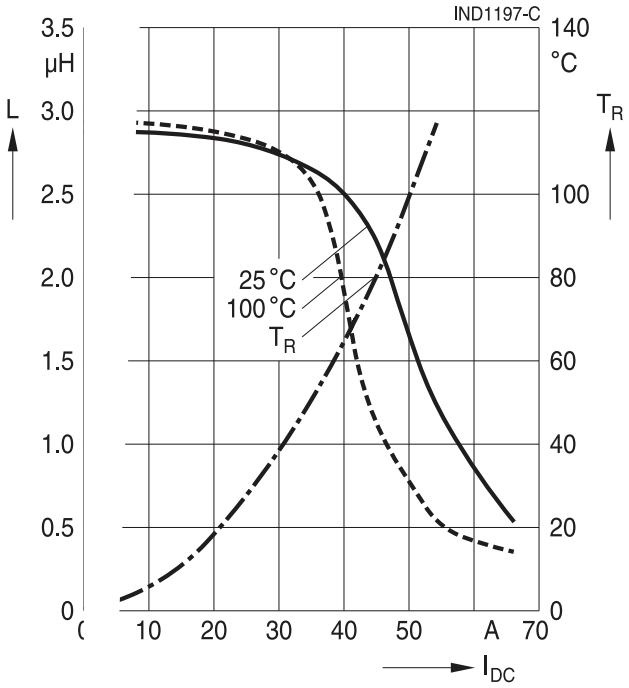


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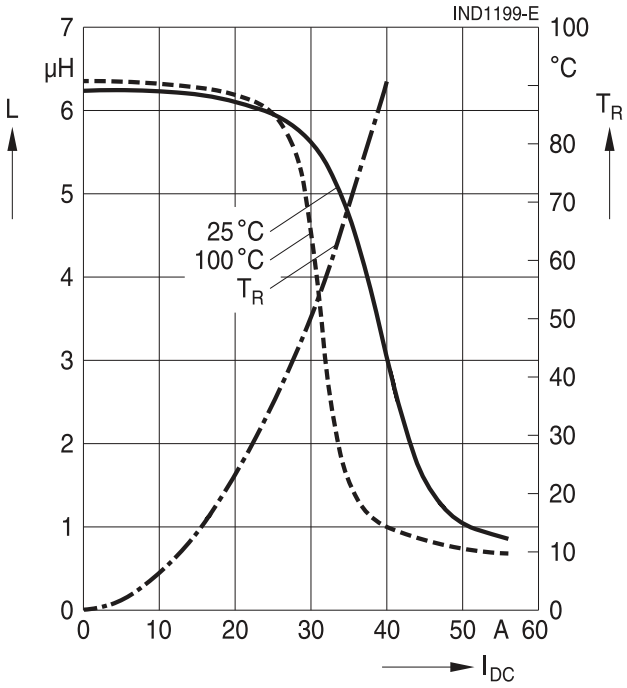


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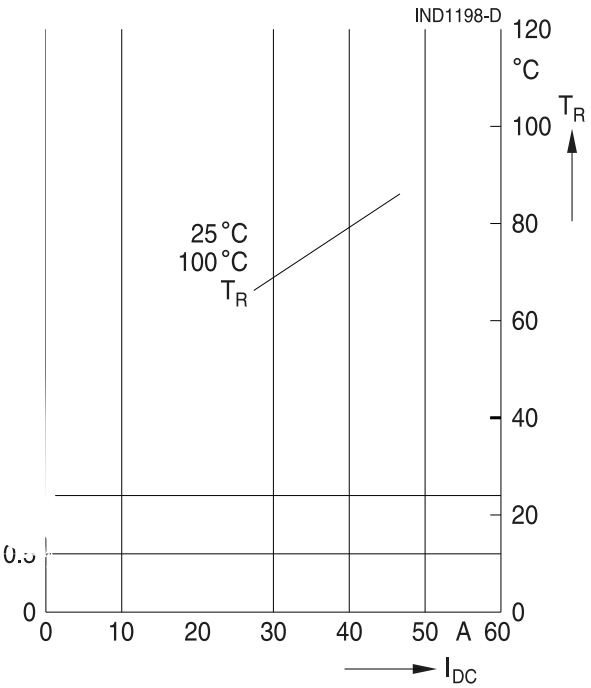


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## SMD

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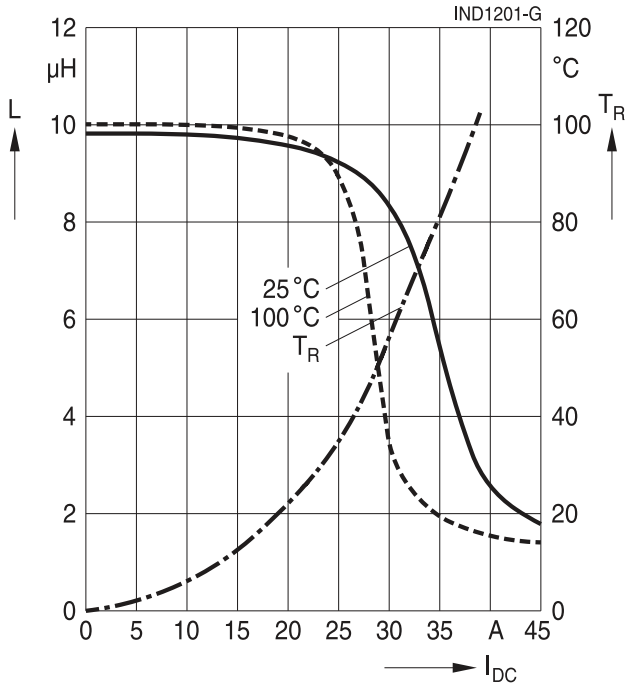


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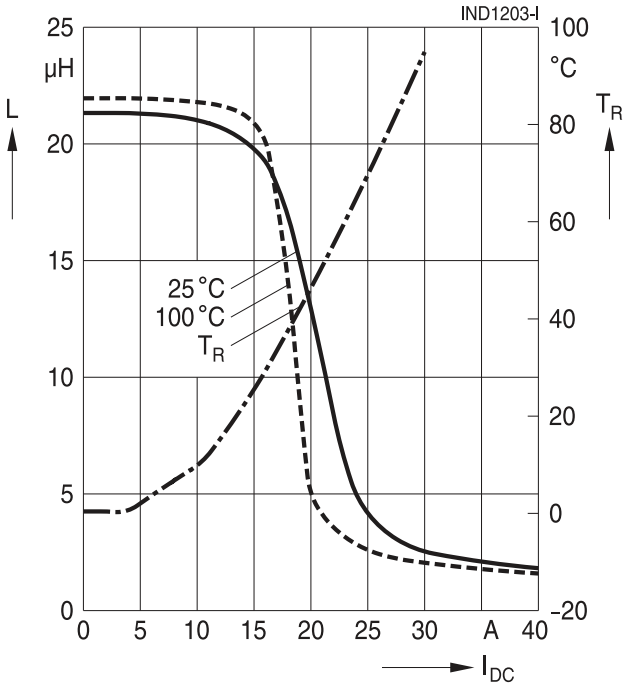


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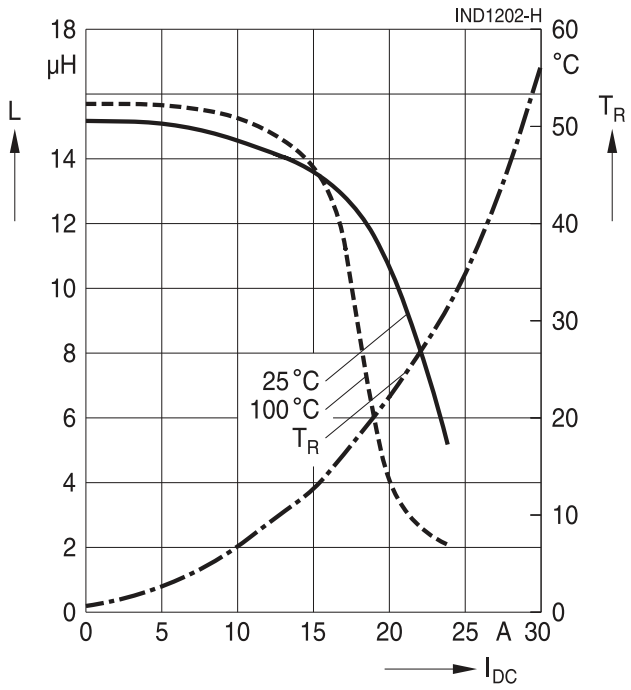

## Cautions and warnings

- Plea e n .e .he ec mmenda i n in Ind c da a b k (la e . edi i n) and in .he da a hee .
  Pa .ic la a .en i n h ld be aid . .he de a ing c e gi en .he e.
  The lde ing c ndi i n h ld al be b e ed. Tem e a e .ed in ela i n . a e lde ing efe . .he in, n . .he h ing.
- If .he c m nen a e . be a hed a ni hed i i nece a . check he he .he a hing a ni h agen . ha i ed ha a nega i e effec n .he i e in la i n, an la .ic .ha a e ed, n gl ed j in . In a .ic la , i i ible f a hing a ni h agen e id e . ha e a nega i e effec in .he l ng- e m n i e in la i n.
  Wa hing ce e ma damage .he d c d e . .he ible .a ic c clic mechanical l ad (e.g. l a nic cleaning). The ma ca e c ack . de el n .he d c and i a . , hich migh lead . ed ced eliabili life ime.
- The f ll ing in m . be b e ed if .he c m nen a e . ed in c . me a lica i n :
  Man ing ma e ial h ink a .he ha den. The .he ef e e e . a e e n .he la .ic h ing c e. Thi e e can ha e a dele e i effec n elec ical e .ie , and in e . eme ca e can damage .he c e la .ic h ing mechanicall .
  L i nece a . check he he .he ing ma e ial ed a .ack de . .he i e in la i n, la .ic gl e.
  The effec f .he ing ma e ial can change .he high-f e enc beha i f .he c m nen .
- Fe i e a e en i i e . di ec im ac . Thi can ca e .he c e ma e ial . flake, lead . b eakage f .he c e.
- E en f c . me - ecific d c , c ncl i e alida i n f .he c m nen in .he ci c i can nl be ca ied . b .he c . me .

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Release 2018-10