Power line chokes

Ring core choke with iron powder core

Series/Type: R 18

Ordering code: B82622S0173L030

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Rated current: $30 \text{ A} / +85 ^{\circ}\text{C}$ Rated inductance: $2.1 \mu\text{H}$

Construction

- Ring core choke with iron powder core
- Sector winding
- Baseplate
- Core, pins and baseplate glued

Features

- Baseplate flame retardant as per UL 94 V-0
- Enameled wire in accordance to EN 60317-13
- RoHS-compatible

Applications

■ EMC choke

Terminals

- Ends of winding wire
- Pins hot dip tinned with Sn99Cu

Marking

Manufacturer, ordering code and date code (YYWWD/X)

Delivery mode and packing units

- Blister tray
- 72 pcs per tray



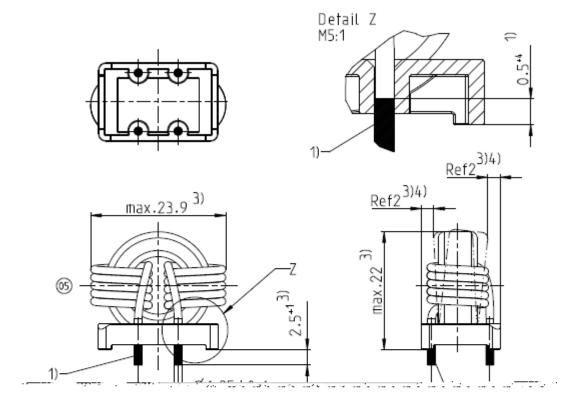


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Dimensional drawing





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Technical data and measuring conditions

Rated inductance L _R	2.1 µH Measured at 100 kHz, 0.1 mA, +20 °C (both windings parallel connected)
Rated temperature T _R	+85 °C
Rated current I _R	30 A Referred to rated temperature T _R
Inductance tolerance	±15% at +20 °C



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Cautions and warnings

- Additional information is contained in our data books, which are also available on the
 internet. Particular attention should be paid to the derating curves given there. The
 soldering conditions given there should also be observed. Temperatures quoted in
 relation to wave soldering refer to the pin, not to the housing.
- If the components are to be washed varnished, it is necessary to check whether any
 washing varnish agent that is used has a negative effect on the wire insulation, any
 plastics that are used, or on glued joints. In particular, it is possible for washing varnish
 agent residues to have a negative effect in the long-term on wire insulation.
 Washing processes may damage the product due to the possible static or cyclic
 mechanical loads (e.g. ultrasonic cleaning). They may cause cracks to develop on the
 product and its parts, which might lead to reduced reliability or lifetime.
- The following points must be observed if the components are potted in customer applications:
 - Many potted materials shrink as they harden. They therefore exert a pressure on the
 plastic housing or core. This pressure can have a deleterious effect on electrical
 properties and, in extreme cases, can damage the core or plastic housing
 mechanically;
 - It is necessary to check whether the potting material used attacks or destroys the wire insulation, plastics or glue;
 - The effect of the potting material can change the high frequency behaviour of the components.
- Ferrites are sensitive to direct impact. This can cause the core material to flake, or lead to breakage of the core.

Even for customer specific products, conclusive validation of the components in the circuit can only be carried out by the customer.

Display of ordering codes for EPCOS products

The ordering code for one and the same EPCOS product can be represented differently in data sheets, data books, other publications, on the EPCOS website, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the**



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1.	Some parts of this publication contain
	As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
2.	We also point out that
	In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
3.	
4.	In order to satisfy certain technical requirements,
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