

Ferrites and accessories

PM 114/93 Core and accessories

Series/Type: B65733, B65734
Date: September 2006



查询"B65733"供应商

PM 114/93

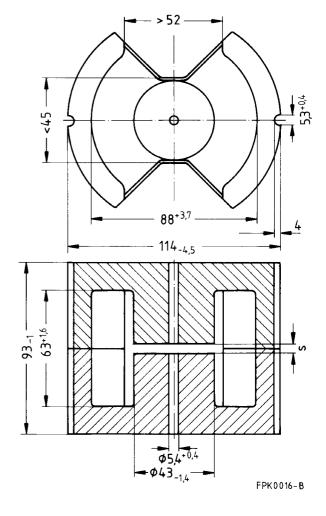
Core B65733

- To IEC 61247
- For power transformers
 >1 kW (20 kHz) and energy storage chokes
- = Delivery and charge store
- Delivery mode: sets

Magnetic characteristics (per set)

 Σ I/A = 0.116 mm⁻¹ I_e = 200 mm A_e = 1720 mm² A_{min} = 1380 mm² V_e = 344000 mm³

Approx. weight 1940 g/set



Gapped

Material	A _L value	s approx. mm	μ _e	Ordering code
N27	630 ± 3%	3.80	58	B65733A0630A027
	6300 ±15%	0.22	583	B65733A6300L027

Ungapped

Material	A _L value	μ_{e}	P_V	Ordering code
	nH		W/set	
N27	16000 +30/–20%	1480	< 14.0 (100 mT, 25 kHz, 100 °C)	B65733A0000R027
N87	16000 +30/–20%	1480	< 10.0 (50 mT, 100 kHz, 100 °C)	B65733A0000R087



查询"B65733"供应商

PM 114/93

Accessories B65734

Coil former without solder pins

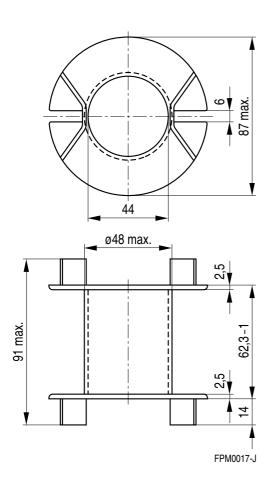
Material: Polyphenylene sulphide (UL 94 V-0, insulation class to IEC 85:

 $F \triangleq max$. operating temperature 155 °C), color code black

Ryton R-4, [E54700 (M)], CHEVRON PHILLIPS CHEMICAL CO L P

Winding: see Data Book 2007, chapter "Processing notes, 2.1"

Sections	A _N mm ²	I _N mm	A_R value $\mu\Omega$	Ordering code
1	1070	210	6.75	B65734B1000T001





查询"B65733"供应商

Ferrites and accessories

Cautions and warnings

Mechanical stress and mounting

Ferrite cores have to meet mechanical requirements during assembling and for a growing number of applications. Since ferrites are ceramic materials one has to be aware of the special behavior under mechanical load.

As valid for any ceramic material, ferrite cores are brittle and sensitive to any shock, fast changing or tensile load. Especially high cooling rates under ultrasonic cleaning and high static or cyclic loads can cause cracks or failure of the ferrite cores.

For detailed information see Data Book 2007, chapter "General – Definitions, 8.1".

Effects of core combination on A_L value

Stresses in the core affect not only the mechanical but also the magnetic properties. It is apparent that the initial permeability is dependent on the stress state of the core. The higher the stresses are in the core, the lower is the value for the initial permeability. Thus the embedding medium should have the greatest possible elasticity.

For detailed information see Data Book 2007, chapter "General – Definitions, 8.2".

Heating up

Ferrites can run hot during operation at higher flux densities and higher frequencies.

NiZn-materials

The magnetic properties of NiZn-materials can change irreversible in high magnetic fields.

Processing notes

- The start of the winding process should be soft. Else the flanges may be destroid.
- To strong winding forces may blast the flanges or squeeze the tube that the cores can no more be mount.
- To long soldering time at high temperature (>300 °C) may effect coplanarity or pin arrangement.
- Not following the processing notes for soldering of the J-leg terminals may cause solderability problems at the transformer because of pollution with Sn oxyd of the tin bath or burned insulation of the wire. For detailed information see Data Book 2007, chapter "Processing notes, 2.2".
- The dimensions of the hole arrangement have fixed values and should be understood as a recommendation for drilling the printed circuit board. For dimensioning the pins, the group of holes can only be seen under certain conditions, as they fit into the given hole arrangement. To avoid problems when mounting the transformer, the manufacturing tolerances for positioning the customers' drilling process must be considered by increasing the hole diameter.

Important notes

The following applies to all products named in this publication:

- 1. Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, EPCOS is 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 an EPCOS 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 individual cases, a malfunction of passive electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of a passive 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 a passive electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. In order to satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as "hazardous"). Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
- 5. We constantly strive to improve our products. Consequently, the products described in this publication may change from time to time. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order.
 - We also reserve the right to discontinue production and delivery of products. Consequently, we cannot guarantee that all products named in this publication will always be available.
- 6. Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI).
- 7. The trade names EPCOS, EPCOS-JONES, Baoke, Alu-X, CeraDiode, CSSP, MLSC, PhaseCap, PhaseMod, SIFI, SIFERRIT, SIKOREL, SilverCap, SIMID, SIOV, SIP5D, SIP5K, UltraCap, WindCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.