

September 22, 2006

## Product withdrawal:

# SMD coil former for EP7 ferrite core

The B65840**N1106**T001 coil former has been withdrawn as reported in UPtoDATE of November 11, 2005, due to tool obsolescence. Unfortunately the tool for the suggested substitute type B65840**F1106**T001 suffered unforeseen failure. The EP7 SMD coil former B65840**F1106**T001 is thus no longer available, with immediate effect.

## Substitute type

We have established a new SMD coil former for EP7 ferrite cores. This type is again available under the ordering code B65840**N1106**T001.

If it is used to replace the withdrawn product, we recommend a new release by the (end) customer in view of the different pin layout (injection-molded U-pin/gullwing). Samples are available for this purpose.

Enclosure: Data sheet of the B65840N1106T1 coil former

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Customers should address inquiries straight to their EPCOS sales contacts.



## **Ferrites and Accessories**

SMD coil former for EP7

Series/Type: B65840

Date: September 2006



### EP 7

## Accessories B65840

Preliminary data



### SMD coil former with gullwing terminals

Material: GFR liquid crystal polymer (UL 94 V-0), color code black

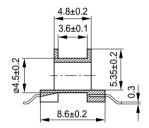
Sumika Super E4008® [E54705 (M)], SUMITOMO CHEMICAL CO LTD

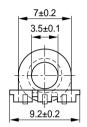
Solderability: to IEC 60068-2-58, test Td, method 6 (Group 3): 245 °C, 3 s

Resistance to soldering heat: to IEC 60068-2-58, test Td, method 6 (Group 3): 255 °C, 10 s

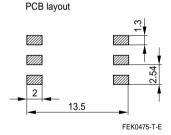
permissible soldering temperature for wire-wrap connection on coil former: 400 °C, 1 s

Sections	A <sub>N</sub> mm <sup>2</sup>	I <sub>N</sub> mm	$A_R$ value $\mu\Omega$	Terminals	Ordering code
1	4.5	18.1	138.1	6	B65840N1106T001





Recommended





### 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 chapter "Definitions", section 8.1.

#### Effects of core combination on A<sub>L</sub> 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 chapter "Definitions", section 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 chapter "Processing notes", section 8.2.
- 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:

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