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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Ferrite accessories

Coil former E40

Series/Type: E40/14-1 PTH Ordering code: B66454A1014T001

Date: 2007-02-02

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Coil former E40 E40/14-1 PTH

Preliminary data

Coil former

Material: GFR polyterephthalate (UL 94 V-0, insulation class to IEC 60085:

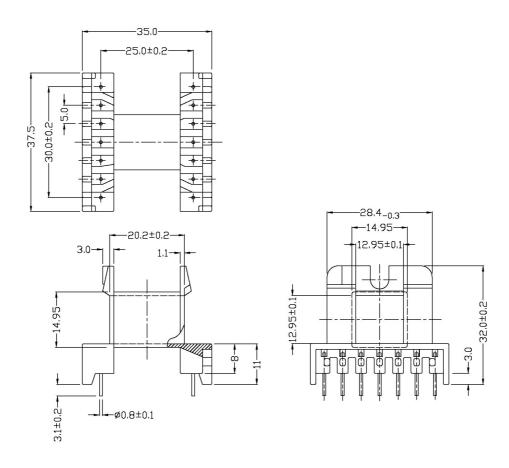
F = max. operating temperature 155 °C), color code black

Valox 420 SE0 [E45329 (M)], GE PLASTICS BV

Solderability: IEC 60068-2-20, test Ta, method 1 (aging 3): 235 ℃, 2s

Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 ℃, 3.5s

Sections	A _N mm ²	I _N mm	A_R value $\mu\Omega$	Terminals	Ordering code
1	120	113	32.5	14	B66454A1014T001



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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 AL 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 ℃) 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

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