



Ferrites and accessories

P 36 x 22, core and accessories

Series/Type: B65611, B65612, B65615, B65679

Date: September 2011

Coil former

Standard: to IEC 60133

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

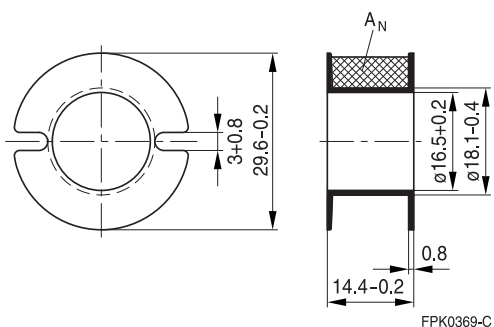
$F \triangleq$ max. operating temperature +155 °C), color code black,

Valox 420-SE0® [E45329 (M)], SABIC INNOVATIVE PLASTICS

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

Coil former				Ordering code
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	
1	63	73	39	B65612B0000T001

Coil former:



Mounting assembly for printed circuit boards

- The set comprises a terminal carrier and a yoke
- For snap-in connection

Terminal carrier

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

$F \hat{=}$ max. operating temperature +155 °C), color code black,

Pocan B4235® [E245249 (M)], LANXESS AG

Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): +235 °C, 2 s;

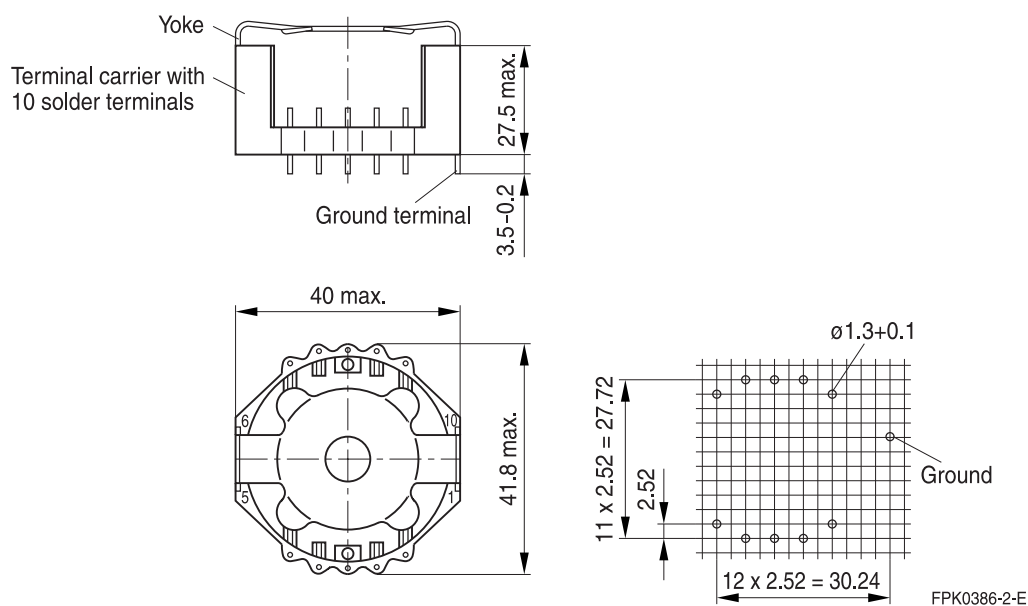
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: +350 °C, 3.5 s

Yoke

Spring yoke, made of tinned nickel silver (0.6 mm), with ground terminal

Complete mounting assembly (10 solder terminals)

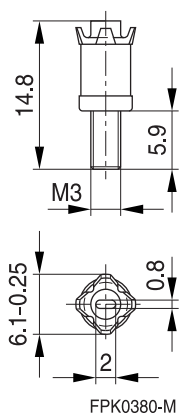
Ordering code: B65615B0001X000



Adjusting screw

- Tube core with thread and core brake made of GFR polyterephthalate, Pocan B3235® [E245249 (M)], LANXESS AG

Tube core			Ordering code
Ø x length (mm)	Material	Color code	
4.55 x 6.3	N22	red	B65679E0003X022
4.98 x 6.3	N22	black	B65679E0002X022



Note:

Due to the limited distance between adjusting screw and internal borehole, the entire assembly must be accurately centered.

Mechanical stress and mounting

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

Just like any ceramic material, ferrite cores are brittle and sensitive to any shock, fast changing or tensile load. Especially fast cooling rates under ultrasonic cleaning, high static and 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 the value for the initial permeability. Thus, the embedding medium should offer 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 irreversibly when exposed to strong magnetic fields.

Processing notes

The start of the winding process should be soft. Otherwise, the flanges may be destroyed.

Excessive winding forces may damage the flanges or squeeze the tube so that the cores can no longer be mounted.

Excessive soldering time at high temperature (>300 °C) may affect 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 contamination with tin oxide (SnO) from the tin bath or burned insulation from the wire. For detailed information see Data Book 2007, chapter "Processing notes, 2.2".

The dimensions of the pin hole arrangement are fixed and should be understood as an ideal recommendation for drilling the printed circuit board. In order to avoid problems when mounting the transformer, customers should make allowances for manufacturing tolerances in the drilling and pick-and-place processes by increasing the diameter of the pin holes

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