

Ferrites and accessories

P 11 × 7
Core and accessories

Series/Type: B65531, B65532, B65535, B65539, B65806

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查询"B65532B0000T001"供应商

P 11×7

Core B65531

■ To IEC 60133

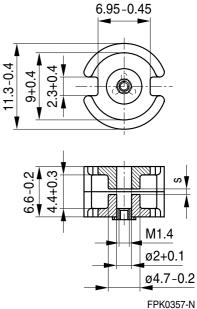
■ Delivery mode: sets

Magnetic characteristics (per set)

	with center hole	without center hole	
Σ Ι/A	1.0	0.92	mm ^{−1}
l _e	15.9	16.3	mm
A _e	15.9	17.7	mm ²
A_{min}	_	14.1	mm ²
V_e	253	289	mm ³

Approx. weight (per set)

m	1.7	1.8	g



Gapped

Material	A _L value	s	μ_{e}	Ordering code 1)
		approx.		-D with center hole
	nH	mm		-T with threaded sleeve
K1	25 ±3%	1.00	20	B65531D0025A001
	40 ±3%	0.41	32	B65531D0040A001
M33	40 ±3%	0.64	32	B65531D0040A033
	63 ±3%	0.38	50	B65531D0063A033
N48	100 ±3%	0.20	80	B65531D0100A048
	160 ±3%	0.10	127	B65531+0160A048
	250 ±3%	0.06	199	B65531+0250A048
	400 ±5%	0.03	318	B65531D0400J048

Ungapped

Material	A _L value	μ_{e}	P_V	Ordering code -D with center hole
	nH		W/set	-W without center hole
M33	780 +30/–20%	620		B65531D0000R033
N48	1800 +30/–20%	1430		B65531D0000R048
N30	3500 +30/–20%	2560		B65531W0000R030
T38	7000 +40/–30%	5130		B65531W0000Y038
N87	2000 +30/–20%	1470	< 0.12 (200 mT, 100 kHz, 100 °C)	B65531W0000R087

¹⁾ Replace the + by the code letter "D" or "T" for the required version.



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Accessories B65532

Coil former

Standard: to IEC 60133

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

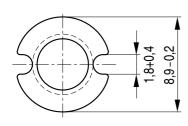
F

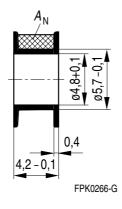
max. operating temperature 155 °C), color code black

Valox 420-SE0® [E45329 (M)], GE PLASTICS B V

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	4.2	22	180	B65532B0000T001







Accessories B65535

Mounting assembly for printed circuit boards

■ The set comprises a terminal carrier and a yoke

For snap-in connection

Terminal carrier

P 11 × 7

■ With thread for the adjusting screw (to be combined with core version "D") Material: GFR polyterephthalate (UL 94 V-0, insulation class to IEC 60085:

F

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

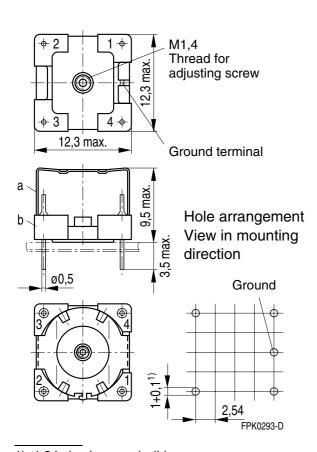
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3.5 s

Yoke

Spring yoke, made of tinned nickel silver (0.25 mm), with ground terminal

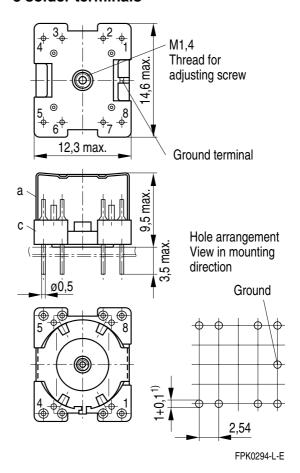
Complete mounting assembly	Complete mounting assembly	
(4 solder terminals)	(8 solder terminals)	
Ordering code: B65535B0002X000	Ordering code: B65535B0003X000	

4 solder terminals



- 1.3 hole also permissible
- Yoke
- Terminal carrier with 4 solder terminals
- c) Terminal carrier with 8 solder terminals

8 solder terminals





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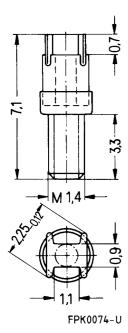
Accessories B65539, B65806

Adjusting screw

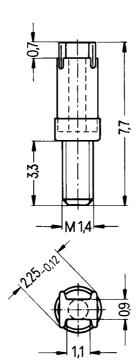
■ Tube core with thread and core brake made of GFR polyterephthalate Pocan B3235® [E245249 (M)], LANXESS AG

Figure	Tube core			Ordering code
	$\emptyset \times \text{length (mm)}$	Material	Color code	
a	1.81 × 2.0	K1	yellow	B65539C1003X001
a	1.81 × 2.7	K1	gray	B65539C1002X001
а	1.81 × 2.7	N22	red	B65539C1002X022
b	1.81 × 3.4	N22	green	B65806C3001X022

а



b



FRM0031-Q

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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.

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