

E 6,3**Core****B66300**

- For miniature transformers, e.g. DC/DC converters for surface mounting
- Available with SMD coil former
- E cores are supplied as single units

Magnetic characteristics (per set)

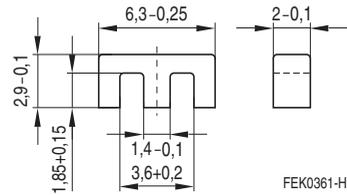
$$\Sigma l/A = 3,7 \text{ mm}^{-1}$$

$$l_e = 12,2 \text{ mm}$$

$$A_e = 3,3 \text{ mm}^2$$

$$A_{\min} = 2,6 \text{ mm}^2$$

$$V_e = 40,3 \text{ mm}^3$$

Approx. weight 0,12 g/set

Material	A_L value nH	μ_e	$A_{L1\min}$ mH	Ordering code
N30	700 + 40/- 30 %	2059	—	B66300-G-X130
T38	1700 + 40/- 30 %	4990	—	B66300-G-X138
N87	380 + 30/- 20 %	1120	300	B66300-G-X187

The A_L value in the table applies to a core set comprising two ungapped cores.



SMD coil former with gullwing terminals

Material: GFR liquid crystal polymer (UL 94 V-0, insulation class to IEC 60085: F \triangleq max. operating temperature 155 °C), color code black

Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 350 °C, 1 s

Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s
permissible soldering temperature for wire-wrap connection on coil former: 400 °C, 1 s

Winding: see "Processing Notes", page 160

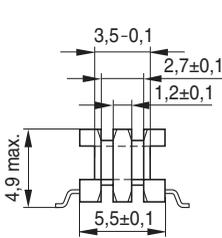
Plastic cover cap

Used to protect the transformer against external influences, for stamping and for improved processing on assembly machines

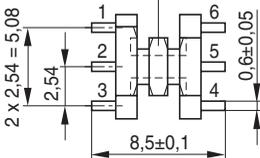
Material: see coil former, color code white

Coil former					Ordering code
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Terminals	
1	1,62	12,8	272	4 6	B66301-B1004-T1 B66301-B1006-T1
2	0,9	12,8	490	4 6	B66301-B1004-T2 B66301-B1006-T2
Plastic cover cap					B66301-C2000

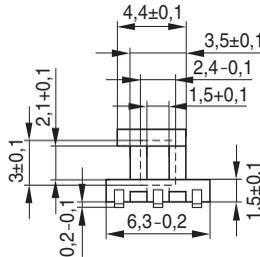
Coil former



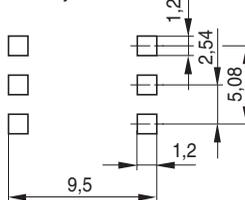
Omitted in 1-section version



Terminals 2 and 5 are omitted in 4-terminal version

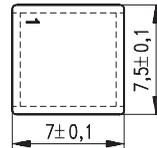
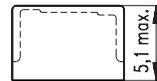


Recommended PCB layout



FEK0421-U

Plastic cover cap



FEK0287-5

Herausgegeben von EPCOS AG

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Published by EPCOS AG

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