

**EFD 25/13/9
Core**

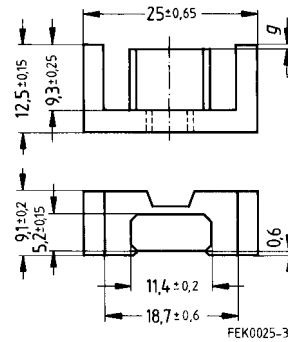
B66421

- E core with flattened, lower center leg for especially flat transformer design
- For DC/DC converters
- EFD cores are supplied as single units

Magnetic characteristics (per set)

$\Sigma l/A = 0,98 \text{ mm}^{-1}$
 $l_e = 57 \text{ mm}$
 $A_e = 58 \text{ mm}^2$
 $A_{\text{min}} = 57 \text{ mm}^2$
 $V_e = 3310 \text{ mm}^3$

Approx. weight 16,6 g/set



Ungapped

Material	A_L value nH	μ_e	$A_{L1\text{min}}$ nH	P_V W/set	Ordering code
N67	2000 + 30/- 20 %	1560	1280	2,10 (200 mT, 100 kHz, 100 °C)	B66421-G-X167
N87	2000 + 30/- 20 %	1560	1280	1,80 (200 mT, 100 kHz, 100 °C)	B66421-G-X187

Gapped

Material	A_L value nH	μ_e	g approx. mm	Ordering code ** = 67 (N67) = 87 (N87)
N67,	160 ± 10 %	125	0,55	B66421-U160-K1**
N87	250 ± 10 %	195	0,30	B66421-U250-K1**
	315 ± 10 %	246	0,22	B66421-U315-K1**

The A_L value in the table applies to a core set comprising one ungapped core (dimension $g = 0$) and one gapped core (dimension $g > 0$).

Calculation factors (see page 423 for formulas)

Material	Relationship between air gap – A_L value		Calculation of saturation current			
	$K1$ (25 °C)	$K2$ (25 °C)	$K3$ (25 °C)	$K4$ (25 °C)	$K3$ (100 °C)	$K4$ (100 °C)
N67	103	- 0,734	150	- 0,820	142	- 0,881
N87	103	- 0,734	154	- 0,796	138	- 0,873

Validity range: $K1, K2: 0,10 \text{ mm} < s < 1,40 \text{ mm}$
 $K3, K4: 50 \text{ nH} < A_L < 410 \text{ nH}$

Coil former

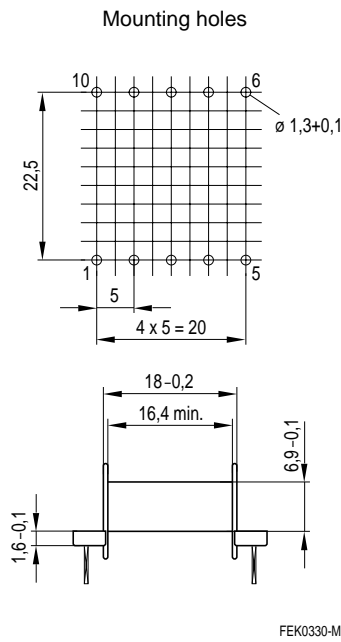
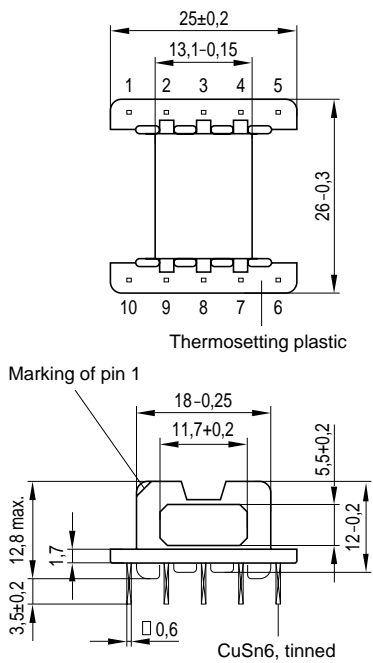
Material: GFR thermosetting plastic (UL 94 V-0, insulation class to IEC 60085: F $\hat{=}$ max. operating temperature 155 °C), color code green
 Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s
 Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s
 Winding: see page 156
 Squared pins

Yoke

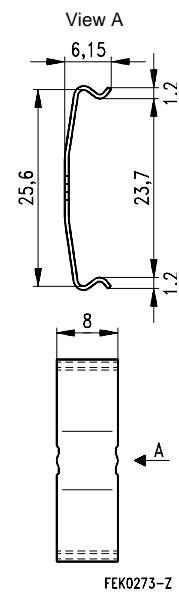
- Material: Stainless spring steel (0,4 mm)

Coil former					Ordering code
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	
1	40,7	50	42,3	10	B66422-B1010-D1
Yoke (ordering code per piece, 2 are required)					B66422-B2000

Coil former



Yoke



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