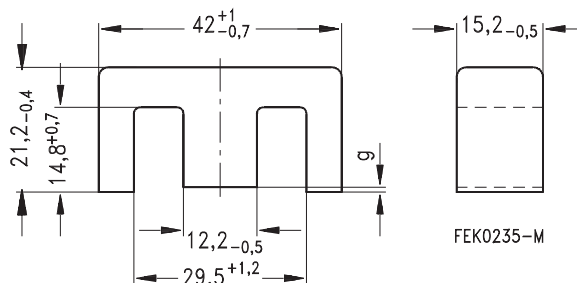


- In accordance with IEC 61246
- E cores are supplied as single units

**Magnetic characteristics (per set)**

$\Sigma l/A = 0,54 \text{ mm}^{-1}$   
 $l_e = 97 \text{ mm}$   
 $A_e = 178 \text{ mm}^2$   
 $A_{\text{min}} = 175 \text{ mm}^2$   
 $V_e = 17\,300 \text{ mm}^3$



**Approx. weight 88 g/set**

**Ungapped**

Material	$A_L$ value nH	$\mu_e$	$A_{L1\text{min}}$ nH	$P_V$ W/set	Ordering code
N27	3500 + 30/- 20 %	1510	2900	3,30 (200 mT, 25 kHz, 100 °C)	B66325-G-X127
N67	3800 + 30/- 20 %	1640	2900	11,00 (200 mT, 100 kHz, 100 °C)	B66325-G-X167
N87	3950 + 30/- 20 %	1690	2900	9,00 (200 mT, 100 kHz, 100 °C)	B66325-G-X187

**Gapped**

Material	$g$ mm	$A_L$ value approx. nH	$\mu_e$	Ordering code
N27	0,10 ± 0,02	1497	647	B66325-G100-X127
	0,25 ± 0,02	759	328	B66325-G250-X127
	0,50 ± 0,05	454	196	B66325-G500-X127
	0,64 ± 0,05	378	164	B66325-G640-X127
	1,00 ± 0,05	272	118	B66325-G1000-X127
	1,50 ± 0,05	201	87	B66325-G1500-X127

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)
N27	272	- 0,741	436	- 0,847	406	- 0,865
N67	272	- 0,741	417	- 0,820	410	- 0,881

Validity range:  $K1, K2: 0,10 \text{ mm} < s < 2,50 \text{ mm}$   
 $K3, K4: 1210 \text{ nH} < A_L < 130 \text{ nH}$

**Coil former**

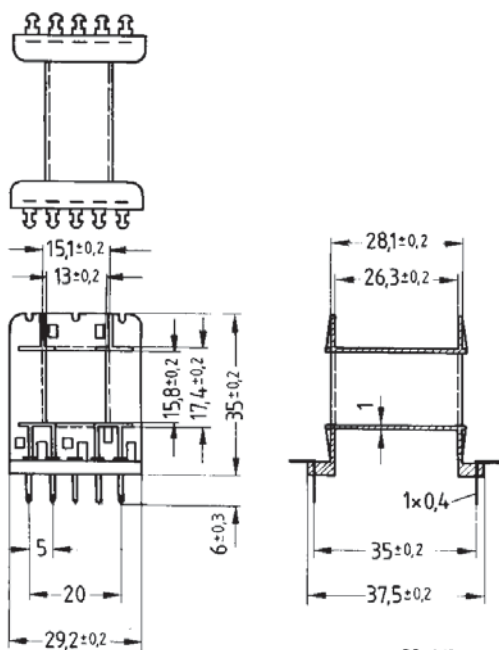
Material: GFR 6-polyamide (UL 94 HB, insulation class to IEC 60085:  
B  $\geq$  max. operating temperature 130 °C), color code natural

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

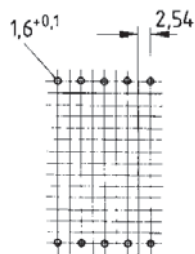
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see page 159

Sections	$A_N$ mm <sup>2</sup>	$l_N$ mm	$A_R$ value $\mu\Omega$	Pins	Ordering code
1	177	87	17	10	B66242-J1000-R1



FEK0136-P



Hole arrangement  
View in mounting direction