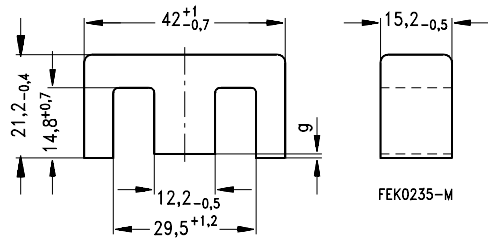


- In accordance with IEC 61246
- E cores are supplied as single units

Magnetic characteristics (per set)

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



Approx. weight 88 g/set

Ungapped

Material	A_L value nH	μ_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	μ_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

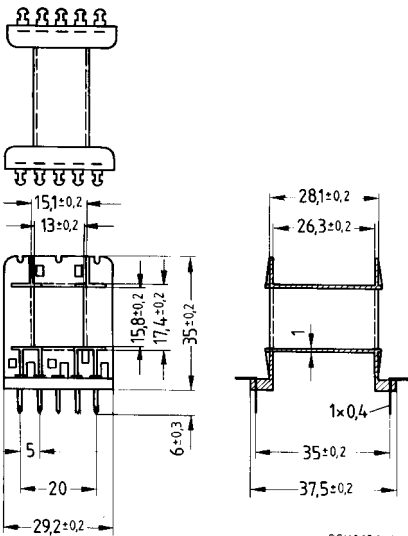
Material: GFR 6-polyamide (UL 94 HB, insulation class to IEC 60085:
B \triangleq max. operating temperature 130 °C), color code natural

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

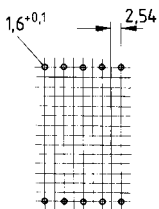
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see page 159

Sections	A_N mm ²	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