



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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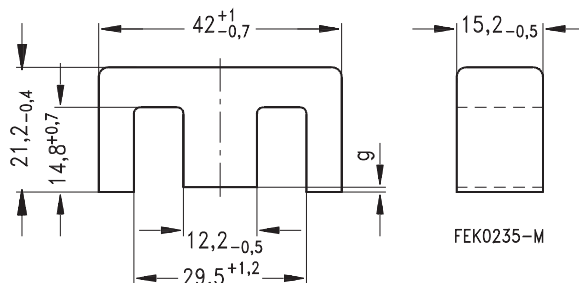
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



- 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	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

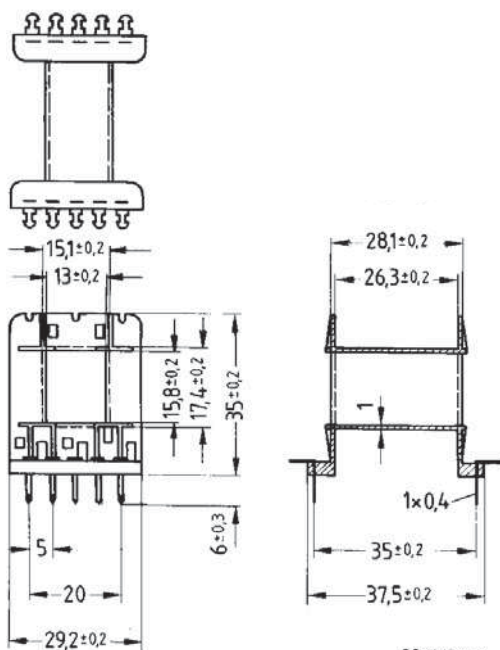
Material: GFR 6-polyamide (UL 94 HB, insulation class to IEC 60085:
B \geq max. operating temperature 130 °C), color code natural

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

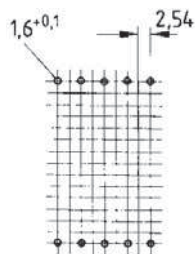
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see page 159

Sections	A_N mm 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