

E 65/32/27

Core

B66387

■ E cores are supplied as single units

Magnetic characteristics (per set)

$$\Sigma l/A = 0,27 \text{ mm}^{-1}$$

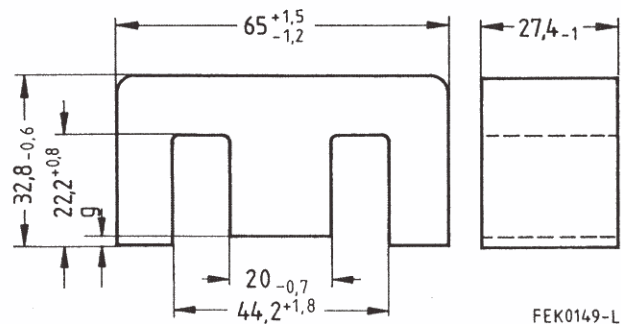
$$l_e = 147 \text{ mm}$$

$$A_e = 535 \text{ mm}^2$$

$$A_{\min} = 529 \text{ mm}^2$$

$$V_e = 78\,600 \text{ mm}^3$$

Approx. weight 394 g/set



Ungapped

Material	A_L value nH	μ_e	$A_{L1\min}$ nH	P_V W/set	Ordering code
N27	7200 + 30/- 20 %	1570	5730	< 14,60 (200 mT, 25 kHz, 100 °C)	B66387-G-X127
N87	7900 + 30/- 20 %	1700	5730	< 6,70 (100 mT, 100 kHz, 100 °C)	B66387-G-X187

Gapped

Material	g mm	A_L value approx. nH	μ_e	Ordering code ** = 27 (N27) = 87 (N87)
N27,	$0,50 \pm 0,05$	1214	265	B66387-G500-X1**
N87	$1,00 \pm 0,05$	716	156	B66387-G1000-X1**
	$1,50 \pm 0,05$	526	115	B66387-G1500-X1**

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 (for formulas, see “E cores: general information”, page 382)

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	716	– 0,762	1231	– 0,847	1154	– 0,865
N87	716	– 0,762	1168	– 0,796	1131	– 0,873

Validity range: $K1, K2: 0,20 \text{ mm} < s < 5,00 \text{ mm}$
 $K3, K4: 230 \text{ nH} < A_L < 2290 \text{ nH}$