



ETD 44/22/15

Core

B66365

- In accordance with IEC 61185
- Quality assurance per UTE 83313-003/CECC 25 301-003 (material N27)
- For SMPS transformers with optimum weight/performance ratio at small volume
- ETD cores are supplied as single units

Magnetic characteristics (per set)

$$\Sigma/A = 0,6 \text{ mm}^{-1}$$

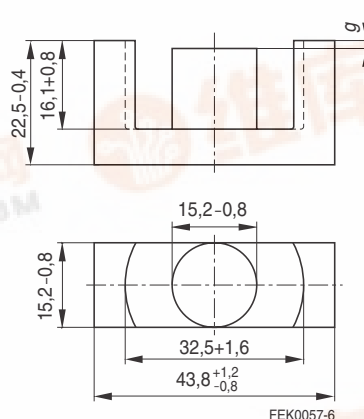
$$l_e = 103 \text{ mm}$$

$$A_e = 173 \text{ mm}^2$$

$$A_{\min} = 172 \text{ mm}^2$$

$$V_e = 17\,800 \text{ mm}^3$$

Approx. weight 94 g/set

**Ungapped**

Material	A_L value nH	μ_e	$A_{L1\min}$ nH	P_v W/set	Ordering code
N27	3300 + 30/- 20 %	1560	2640	< 3,48 (200 mT, 25 kHz, 100 °C)	B66365-G-X127
N87	3500 + 30/- 20 %	1650	2640	< 9,40 (200 mT, 100 kHz, 100 °C)	B66365-G-X187
N97 ¹⁾	3600 + 30/- 20 %	1720	2640	< 8,00 (200 mT, 100 kHz, 100 °C)	B66365-G-X197

Gapped

Material	g mm	A_L value approx. nH	μ_e	Ordering code ** = 27 (N27) = 87 (N87)
N27,	0,20 ± 0,02	862	407	B66365-G200-X1**
N87	0,50 ± 0,05	438	207	B66365-G500-X1**
	1,00 ± 0,05	262	124	B66365-G1000-X1**
	1,50 ± 0,05	194	92	B66365-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 $g > 0$).



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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	262	– 0,74	420	– 0,847	391	– 0,865
N87	262	– 0,74	420	– 0,796	382	– 0,873

Validity range: $K1, K2$: $0,10 \text{ mm} < s < 3,50 \text{ mm}$
 $K3, K4$: $110 \text{ nH} < A_L < 1060 \text{ nH}$

Coil former (magnetic axis horizontal)

Material: GFR polyterephthalate, UL 94 V-0, insulation class to IEC 60085:
B66366B: F = max. operating temperature 155 °C, color code black (Valox 420SE0; [E 45329 (M)]; General Electric Plastics)
B66366W: H = max. operating temperature 180 °C, color code black (Rynite FR530; [E 69578 (M)]; E I DUPONT DE NEMOURS & CO INC)

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

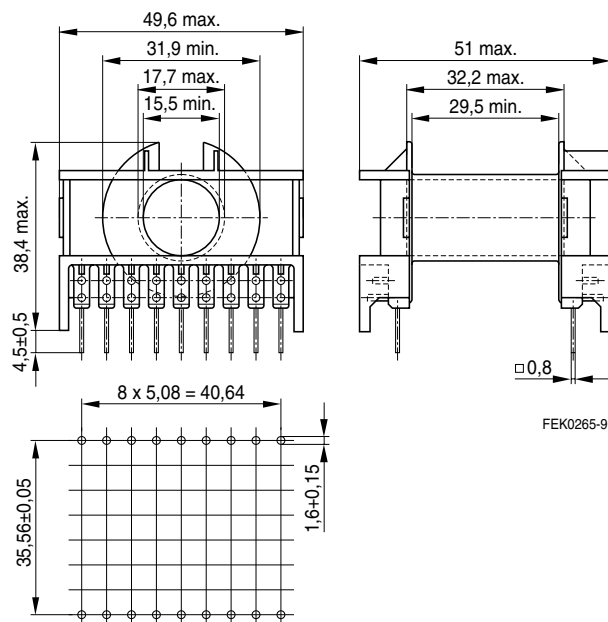
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350°C, 3.5 s

Winding: see databook 2001, chapter *Processing Notes*, page 158

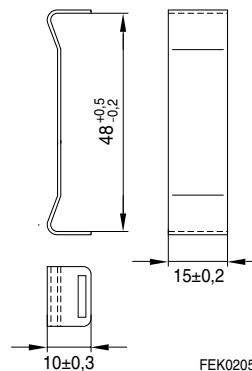
Yoke Material: Stainless spring steel (0.4 mm)

Sections	A _N (mm ²)	l _N (mm)	A _R value (μΩ)	Pins	Ordering code
1	210	77.7	12.7	18	B66366B1018T B66366W1018T
Yoke (ordering code per piece, 2 are required)					B66366A2000

Coil former



Yoke



Hole arrangement

View in mounting direction

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