



ETD 39/20/13

Core

B66363

- In accordance with IEC 61185
- Quality assurance per UTE 83313-002/CECC 25 301-002 (material N27)
- For SMPS transformers with optimum weight/performance ratio at small volume
- ETD cores are supplied as single units

Magnetic characteristics (per set)

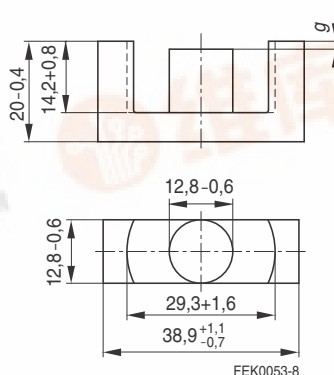
$$\Sigma l/A = 0,74 \text{ mm}^{-1}$$

$$l_e = 92,2 \text{ mm}$$

$$A_e = 125 \text{ mm}^2$$

$$A_{\min} = 123 \text{ mm}^2$$

$$V_e = 11\,500 \text{ mm}^3$$



Approx. weight 60 g/set

Ungapped

Material	A_L value nH	μ_e	$A_{L1\min}$ nH	P_v W/set	Ordering code
N27	2550 + 30/- 20 %	1500	2140	< 2,22 (200 mT, 25 kHz, 100 °C)	B66363-G-X127
N87	2700 + 30/- 20 %	1600	2140	< 6,00 (200 mT, 100 kHz, 100 °C)	B66363-G-X187
N97 ¹⁾	2800 + 30/- 20 %	1650	2140	< 5,10 (200 mT, 100 kHz, 100 °C)	B66363-G-X197

Gapped

Material	g mm	A_L value approx. nH	μ_e	Ordering code ** = 27 (N27) = 87 (N87)
N27,	0,10 ± 0,02	1062	622	B66363-G100-X1**
N87	0,20 ± 0,02	639	374	B66363-G200-X1**
	0,50 ± 0,05	326	191	B66363-G500-X1**
	1,00 ± 0,05	196	115	B66363-G1000-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	196	– 0,734	308	– 0,847	287	– 0,865
N87	196	– 0,734	300	– 0,796	280	– 0,873

Validity range: $K1, K2$: $0,10 \text{ mm} < s < 3,00 \text{ mm}$
 $K3, K4$: $90 \text{ nH} < A_L < 850 \text{ nH}$

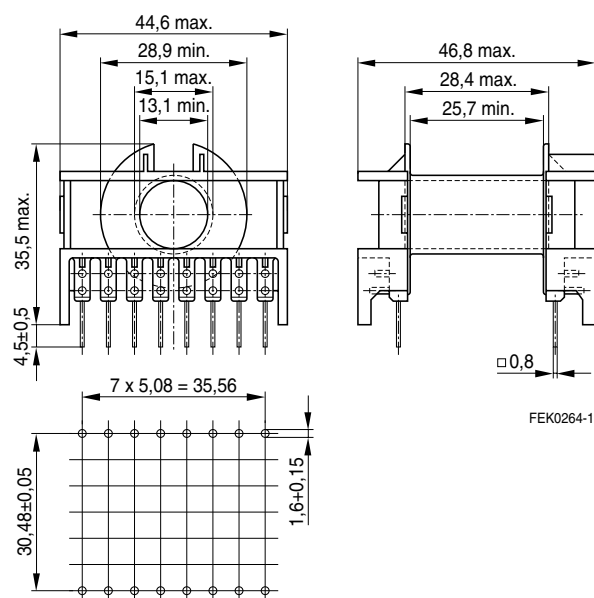
Coil former (magnetic axis horizontal)

Material: GFR polyterephthalate, UL 94 V-0, insulation class to IEC 60085:
B66364B: F = max. operating temperature 155 °C, color code black (Valox 420SE0; [E 45329 (M)]; General Electric Plastics)
B66364W: 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)

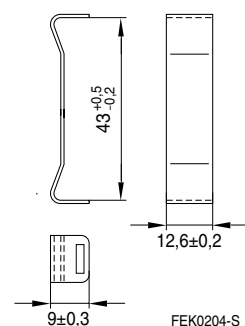
Sections	A _N (mm ²)	l _N (mm)	A _R value (μΩ)	Pins	Ordering code
1	178	69	13.3	16	B66364B1016T00 B66364W1016T00
Yoke (ordering code per piece, 2 are required)					B66364A2000

Coil former



Hole arrangement
View in mounting direction

Yoke



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Published by EPCOS AG**Marketing Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY**

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