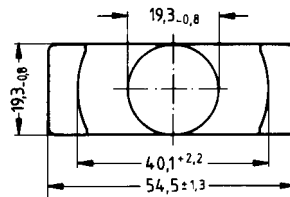
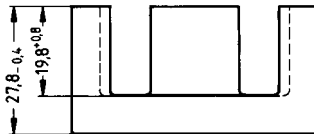


- In accordance with IEC 61185
- For SMPS transformers with optimum weight/performance ratio at small volume
- ETD cores are supplied as single units

Magnetic characteristics (per set)

$\Sigma/A = 0,45 \text{ mm}^{-1}$
 $l_e = 127 \text{ mm}$
 $A_e = 280 \text{ mm}^2$
 $A_{\min} = 280 \text{ mm}^2$
 $V_e = 35\,600 \text{ mm}^3$

Approx. weight 180 g/set



FEK0065-W

Ungapped

Material	A_L value nH	μ_e	$A_{L1\min}$ nH	P_V W/set	Ordering code
N27	4200 + 30/- 20 %	1510	3470	6,66 (200 mT, 25 kHz, 100 °C)	B66395-G-X127
N67	4400 + 30/- 20 %	1570	3470	26,00 (200 mT, 100 kHz, 100 °C)	B66395-G-X167
N87	4450 + 30/- 20 %	1600	3470	21,00 (200 mT, 100 kHz, 100 °C)	B66395-G-X187

Gapped

Material	g mm	A_L value approx. nH	μ_e	Ordering code ** = 27 (N27) = 67 (N67) = 87 (N87)
N27,	0,20 ± 0,02	1377	496	B66395-G200-X1**
N67,	1,00 ± 0,05	393	141	B66395-G1000-X1**
N87	1,50 ± 0,05	287	103	B66395-G1500-X1**
	2,00 ± 0,05	229	82	B66395-G2000-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 (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	393	– 0,779	658	– 0,847	615	– 0,865
N67	393	– 0,779	624	– 0,820	623	– 0,881
N87	393	– 0,779	630	– 0,796	603	– 0,873

Validity range: $K1, K2: 0,10 \text{ mm} < s < 3,50 \text{ mm}$
 $K3, K4: 140 \text{ nH} < A_L < 1390 \text{ nH}$

Coil former

Material: GFR polyterephthalate (UL 94 V-0, insulation class to IEC 60085:
 F \triangleq max. operating temperature 155 °C), color code black

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 157

Yoke

Material: Stainless spring steel (0,4 mm)

Coil former					Ordering code
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	
1	315,6	96	10,5	22	B66396-A1022-T1
Yoke (ordering code per piece, 2 are required)					B66396-A2000

Coil former

Yoke

