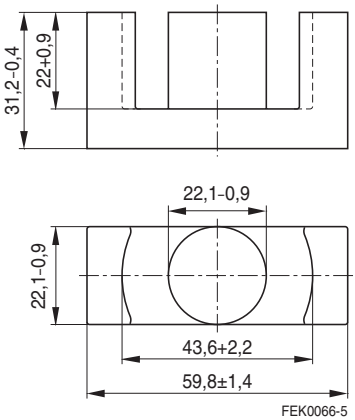
- In accordance with IEC 61185
- For SMPS transformers with optimum weight/performance ratio at small volume
- ETD cores are supplied as single units



Magnetic characteristics (per set)

$\Sigma l/A$ = 0,38 mm^{-1}
l_e = 139 mm
A_e = 368 mm^2
A_{min} = 368 mm^2
V_e = 51 200 mm^3

Approx. weight 260 g/set

Ungapped

Material	A_L value nH	μ_e	A_{L1min} nH	P_V W/set	Ordering code
N27	5000 + 30/– 20 %	1500	4170	< 9,62 (200 mT, 25 kHz, 100 °C)	B66397-G-X127
N87	5300 + 30/– 20 %	1590	4170	< 5,20 (100 mT, 100 kHz, 100 °C)	B66397-G-X187
N97 1)	5500 + 30/– 20 %	1660	4170	< 4,50 (100 mT, 100 kHz, 100 °C)	B66397-G-X197

Gapped

Material	g mm	A_L value approx. nH	μ_e	Ordering code ** = 27 (N27) = 87 (N87)
N27, N87	0,20 ± 0,02	1588	476	B66397-G200-X1**
	1,00 ± 0,05	508	152	B66397-G1000-X1**
	1,50 ± 0,05	381	114	B66397-G1500-X1**
	2,00 ± 0,05	311	93	B66397-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 $g > 0$).

1) Preliminary data

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	508	– 0,708	853	– 0,847	799	– 0,865
N87	508	– 0,708	812	– 0,796	783	– 0,873

Validity range: *K1*, *K2*: 0,10 mm < *s* < 3,50 mm
K3, *K4*: 170 nH < A_L < 1660 nH

Coil former

Material: GFR polyterephthalate, UL 94 V-0, insulation class to IEC 60085:
B66398A: F ≙ max. operating temperature 155 °C, color code black
(Pocan B4235; [E 41613 (M)]; Bayer)
B66398W: 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

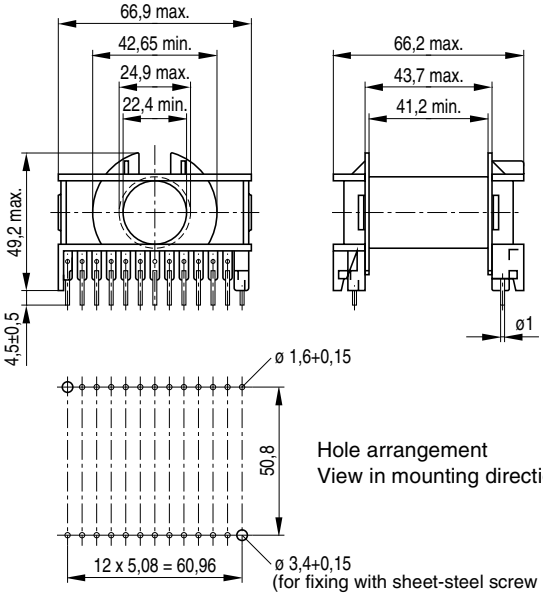
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3.5 s

Winding: see data book 2001, chapter *Processing Notes,* page 158

Yoke Material: Stainless spring steel (0.4 mm)

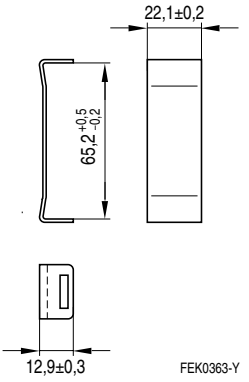
Coil former					Ordering code
Sections	A_N mm²	l_N mm	A_R value μΩ	Pins	
1	365.6	106.1	10	24	B66398A1024T001 B66398W1024T001
Yoke (ordering code per piece, 2 are required)					B66398A2000

Coil former



Hole arrangement
View in mounting direction

Yoke



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