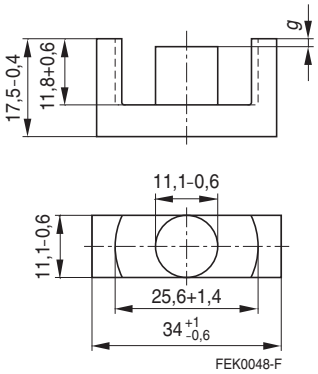
- In accordance with IEC 61185
- Quality assurance per UTE 83313-001/ CECC 25 301-001 (material N27)
- For SMPS transformers with optimum weight/performance ratio at small volume
- ETD cores are supplied as single units



Magnetic characteristics (per set)

$\Sigma l/A$ = 0,81 mm^{-1}
l_e = 78,6 mm
A_e = 97,1 mm^2
A_{min} = 91,6 mm^2
V_e = 7 630 mm^3

Approx. weight 40 g/set

Ungapped

Material	A_L value nH	μ_e	A_{L1min} nH	P_V W/set	Ordering code
N27	2400 + 30/– 20 %	1540	1940	< 1,48 (200 mT, 25 kHz, 100 °C)	B66361-G-X127
N87	2600 + 30/– 20 %	1670	1940	< 4,00 (200 mT, 100 kHz, 100 °C)	B66361-G-X187
N97 1)	2650 + 30/– 20 %	1710	1940	< 3,40 (200 mT, 100 kHz, 100 °C)	B66361-G-X197

Gapped

Material	g mm	A_L value approx. nH	μ_e	Ordering code ** = 27 (N27) = 87 (N87)
N27, N87	0,10 ± 0,02	790	508	B66361-G100-X1**
	0,20 ± 0,02	482	310	B66361-G200-X1**
	0,50 ± 0,05	251	161	B66361-G500-X1**
	1,00 ± 0,05	153	98	B66361-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 $g > 0$).

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	153	– 0,713	245	– 0,847	227	– 0,865
N87	153	– 0,713	240	– 0,796	222	– 0,873

Validity range: *K1*, *K2*: 0,10 mm < *s* < 2,50 mm
K3, *K4*: 80 nH < A_L < 780 nH

Coil former (magnetic axis horizontal)

Material: GFR polyterephthalate, UL 94 V-0, insulation class to IEC 60085:
B66362B: F = max. operating temperature 155 °C, color code black
(Valox 420SE0; [E 45329 (M)]; General Electric Plastics)
B66362W: 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

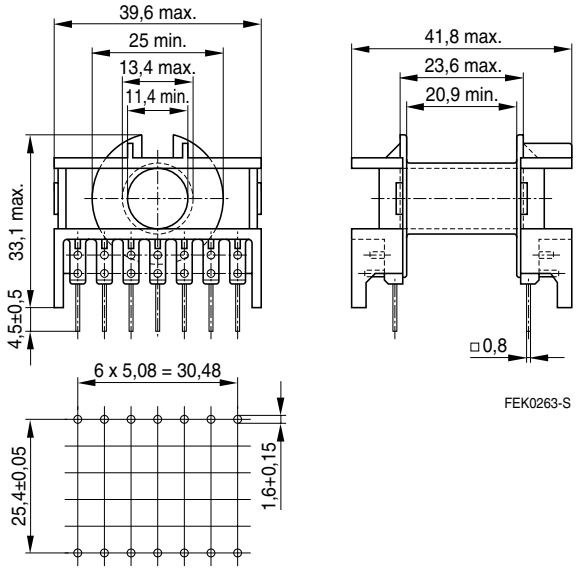
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3.5 s

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

Yoke Material: Stainless spring steel (0.4 mm)

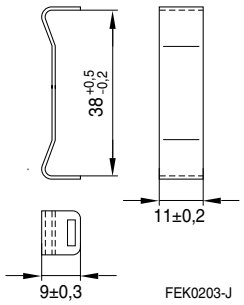
Sections	A_N (mm²)	l_N (mm)	A_R value (μΩ)	Pins	Ordering code
1	122	60.5	17	14	B66362B1014T001 B66362W1014T001
Yoke (ordering code per piece, 2 are required)					B66362A2000

Coil former



Hole arrangement
View in mounting direction

Yoke



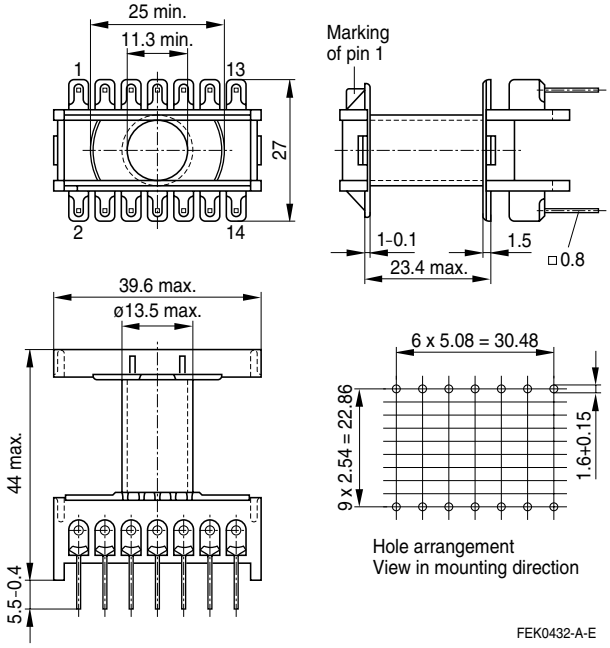
Coil former (magnetic axis vertical, squared pins)

Material: GFR polyterephthalate, UL 94 V-0, insulation class to IEC 60085:
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

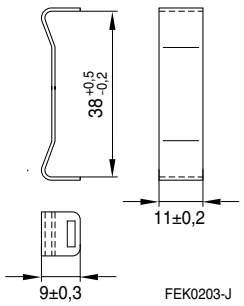
Yoke Material: Stainless spring steel (0.4 mm)

Sections	A_N (mm²)	l_N (mm)	A_R value (μΩ)	Pins	Ordering code
1	122	60.5	17	14	B66362X1014T001
Yoke (ordering code per piece, 2 are required)					B66362A2000

Coil former



Yoke



Coil former (magnetic axis vertical, molded-in pins)

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

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

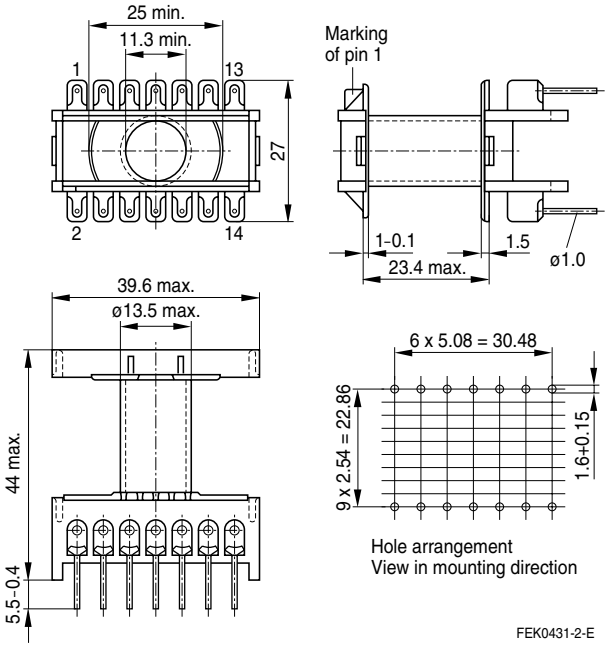
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3.5 s

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

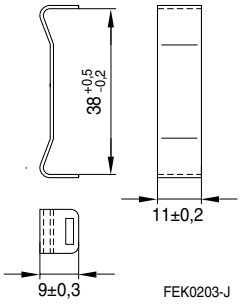
Yoke Material: Stainless spring steel (0.4 mm)

Sections	A_N (mm²)	l_N (mm)	A_R value (μΩ)	Pins	Ordering code
1	122	60.5	17	14	B66362L1014T001
Yoke (ordering code per piece, 2 are required)					B66362A2000

Coil former



Yoke



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

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