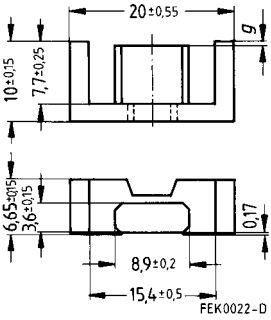
- E core with flattened, lower center leg for especially flat transformer design
- For DC/DC converters
- EFD cores are supplied as single units



Magnetic characteristics (per set)

$\Sigma l/A$ = 1,52 mm^{-1}
l_e = 47 mm
A_e = 31 mm^2
A_{min} = 31 mm^2
V_e = 1 460 mm^3

Approx. weight 7,2 g/set

Ungapped

Material	A_L value nH	μ_e	A_{L1min} nH	P_V W/set	Ordering code
N49	910 + 30/– 20 %	1100	750	0,29 (50 mT, 500 kHz, 100 ˚C)	B66417-G-X149
N87	1200 + 30/– 20 %	1440	660	1,05 (200 mT, 100 kHz, 100 ˚C)	B66417-G-X187

Gapped

Material	A_L value nH	μ_e	g approx. mm	Ordering code
N87	100 ± 10 %	120	0,49	B66417-U100-K187
	160 ± 10 %	193	0,25	B66417-U160-K187

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)
N87	61,1	– 0,699	85,4	– 0,796	75,7	– 0,873

Validity range: *K1*, *K2*: 0,10 mm < *s* < 1,40 mm
K3, *K4*: 50 nH < A_L < 410 nH

Coil former

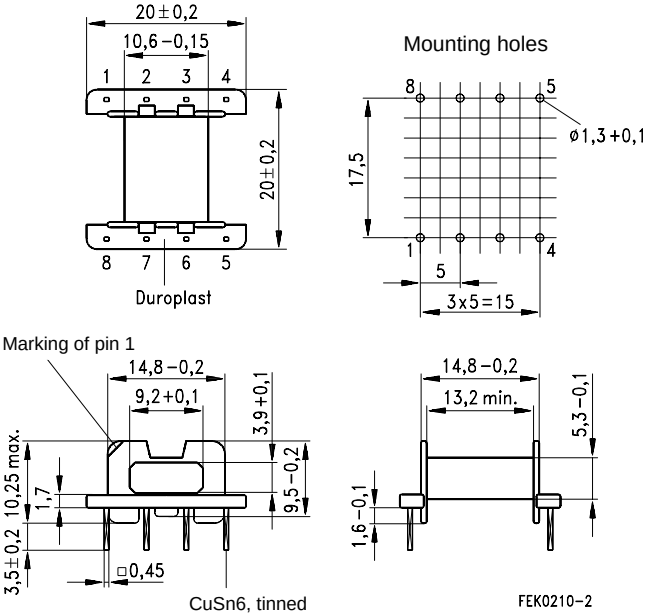
Material: GFR thermosetting plastic (UL 94 V-0, insulation class to IEC 60085: F ≙ max.operating temperature 155 ˚C), color code green
Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 ˚C, 2 s
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 ˚C, 3,5 s
Winding: see page 156
Squared pins

Yoke

- Material: Stainless spring steel (0,3 mm)

Coil former					Ordering code
Sections	A_N mm²	l_N mm	A_R value μΩ	Pins	
1	28,1	40,2	49,2	8	B66418-B1008-D1
Yoke (ordering code per piece, 2 are required)					B66418-B2000

Coil former



Yoke