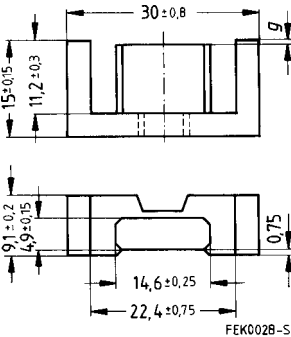


- E core with flattened, lower center leg for especially flat transformer design
- For DC/DC converters
- EFD cores are supplied as single units

Magnetic characteristics (per set)

$\Sigma l/A = 0,99 \text{ mm}^{-1}$
 $l_e = 68 \text{ mm}$
 $A_e = 69 \text{ mm}^2$
 $A_{\min} = 69 \text{ mm}^2$
 $V_e = 4690 \text{ mm}^3$

Approx. weight 24 g/set



Ungapped

Material	A_L value nH	μ_e	$A_{L1\min}$ nH	P_V W/set	Ordering code
N67	2050 + 30/- 20 %	1610	1280	3,00 (200 mT, 100 kHz, 100 °C)	B66423-G-X167
N87	2050 + 30/- 20 %	1610	1280	2,60 (200 mT, 100 kHz, 100 °C)	B66423-G-X187

Gapped

Material	A_L value nH	μ_e	g approx. mm	Ordering code ** = 67 (N67) = 87 (N87)
N67,	160 ± 10 %	125	0,71	B66423-U160-K1**
N87	250 ± 10 %	196	0,38	B66423-U250-K1**
	315 ± 10 %	246	0,27	B66423-U315-K1**

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)
N67	125	– 0,712	172	– 0,820	166	– 0,881
N87	125	– 0,712	176	– 0,796	161	– 0,873

Validity range: $K1, K2: 0,10 \text{ mm} < s < 2,00 \text{ mm}$
 $K3, K4: 70 \text{ nH} < A_L < 630 \text{ nH}$

Coil former

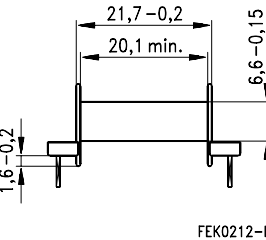
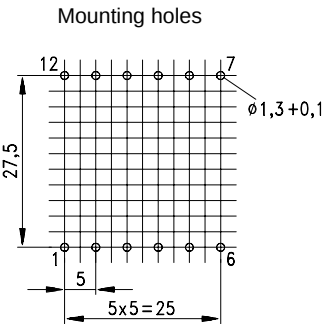
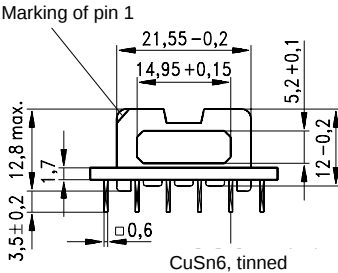
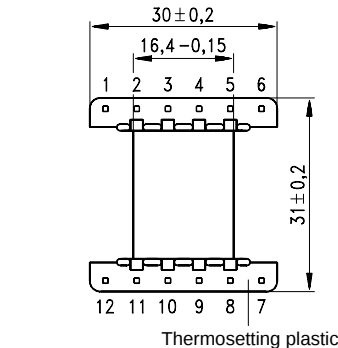
Material: GFR thermosetting plastic (UL 94 V-0, insulation class to IEC 60085:
F $\triangleq$ max. operating temperature 155 °C), color code green
Solderability: to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5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

Yoke

- Material: Stainless spring steel (0,45 mm)

Coil former					Ordering code
Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	
1	52,3	56,7	37,3	12	B66424-B1012-D1
Yoke (ordering code per piece, 2 are required)					B66424-B2000

Coil former



Yoke

