

- In accordance with IEC 61246
- E cores are supplied as single units

**Magnetic characteristics (per set)**

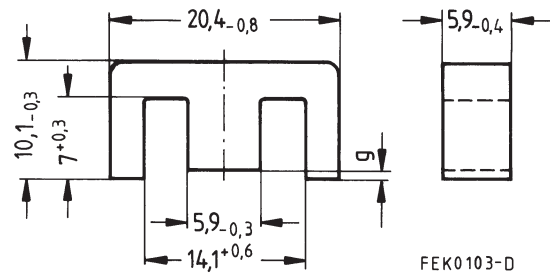
$$\Sigma/A = 1,44 \text{ mm}^{-1}$$

$$l_e = 46,3 \text{ mm}$$

$$A_e = 32,1 \text{ mm}^2$$

$$A_{\min} = 31,9 \text{ mm}^2$$

$$V_e = 1490 \text{ mm}^3$$


**Approx. weight** 7,3 g/set

**Ungapped**

Material	$A_L$ value nH	$\mu_e$	$A_{L1\min}$ nH	$P_V$ W/set	Ordering code
N30	2150 + 30/- 20 %	2460			B66311-G-X130
N27	1300 + 30/- 20 %	1490	1090	< 0,27 (200 mT, 25 kHz, 100 °C)	B66311-G-X127
N87	1470 + 30/- 20 %	1680	1090	< 0,75 (200 mT, 100 kHz, 100 °C)	B66311-G-X187

**Gapped**

Material	$g$ mm	$A_L$ value approx. nH	$\mu_e$	Ordering code ** = 27 (N27) = 87 (N87)
N27,	0,09 ± 0,01	363	415	B66311-G90-X1**
N87	0,17 ± 0,02	227	259	B66311-G170-X1**
	0,25 ± 0,02	171	195	B66311-G250-X1**
	0,50 ± 0,05	103	118	B66311-G500-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** (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	61,6	– 0,737	88,1	– 0,847	80,9	– 0,865
N87	61,6	– 0,737	88,5	– 0,796	78,4	– 0,873

Validity range:      $K1, K2$ : 0,05 mm <  $s$  < 1,50 mm  
                            $K3, K4$ : 50 nH <  $A_L$  < 430 nH

**Coil former (magnetic axis horizontal or vertical)**

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

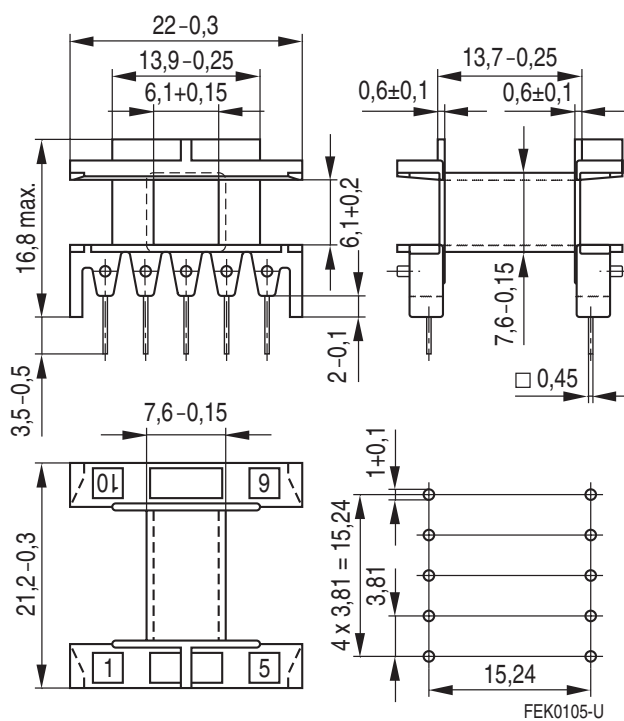
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see "Processing Notes", page 159

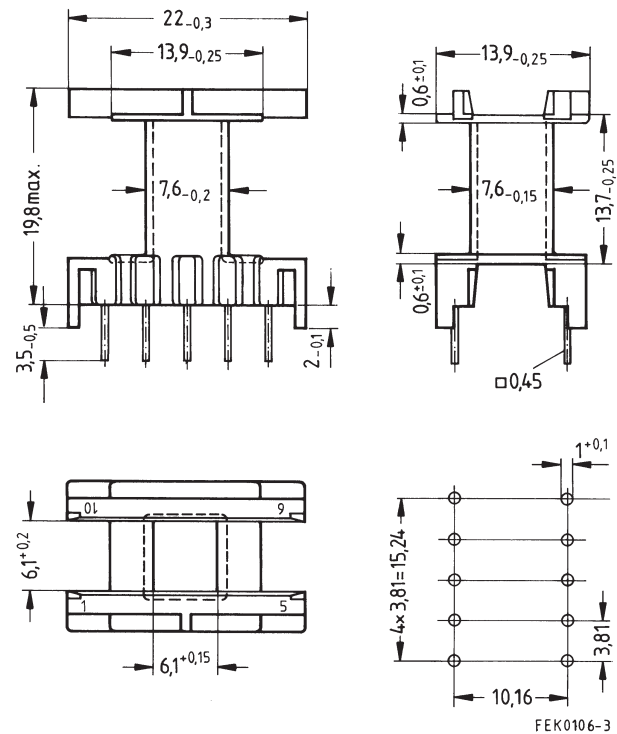
Squared pins

For matching yoke see next page

Figure	Sections	$A_N$ mm <sup>2</sup>	$l_N$ mm	$A_R$ value $\mu\Omega$	Pins	Ordering code
1	1	34	41,2	42	10	B66206-A1110-T1
2	1	34	41,2	42	10	B66206-J1110-T1

**Figure 1, horizontal version**


Hole arrangement  
View in mounting  
direction

**Figure 2, vertical version**


Hole arrangement  
View in mounting  
direction

**Coil former (with right-angle pins)**

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 "Processing Notes", page 159

Squared pins

**Yoke**

Material: Stainless spring steel (0,2 mm)

Coil former						Ordering code
Figure	Sections	$A_N$ mm <sup>2</sup>	$l_N$ mm	$A_R$ value $\mu\Omega$	Pins	
1	1	34	41,2	42	12	B66206-C1012-T1
2	1	34	41,2	42	14	B66206-C1014-T1
3	Yoke (ordering code per piece, 2 are required)					B66206-A2010

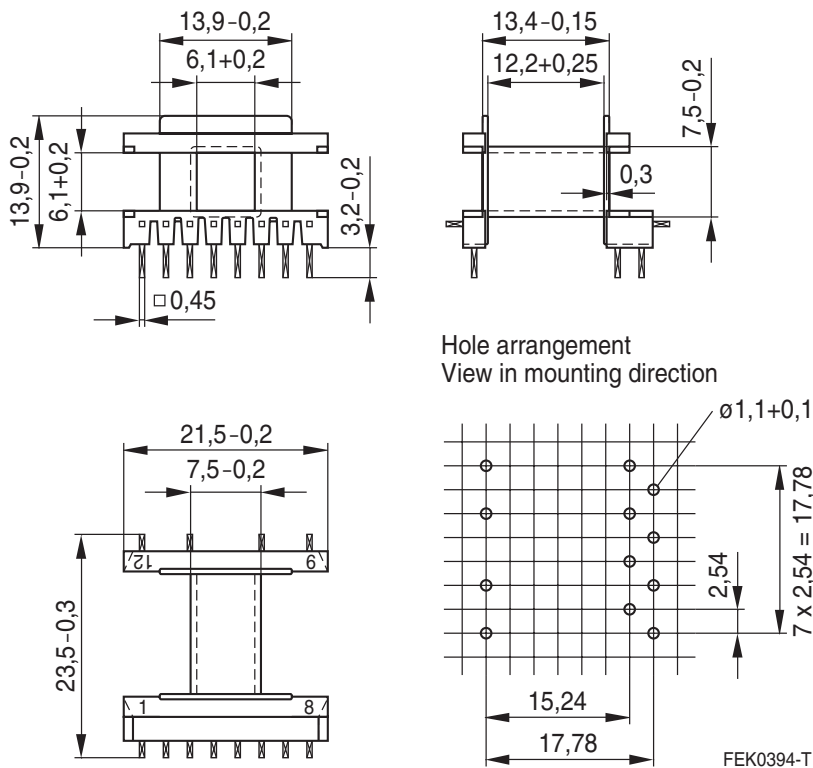
**Figure 1, coil former (12 pins)**


Figure 2, coil former (14 pins)

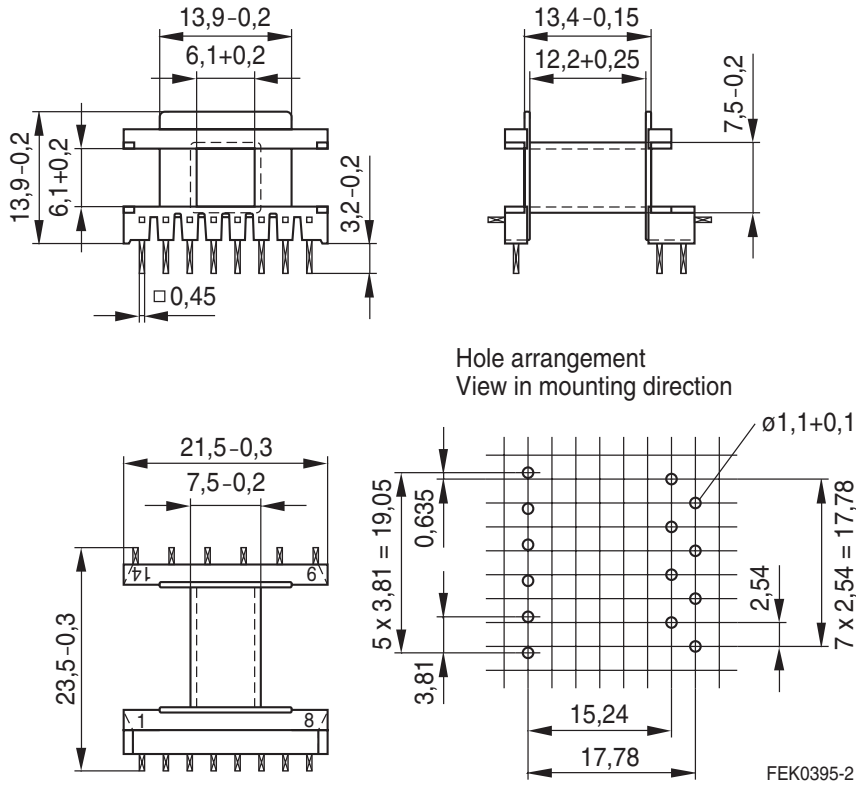
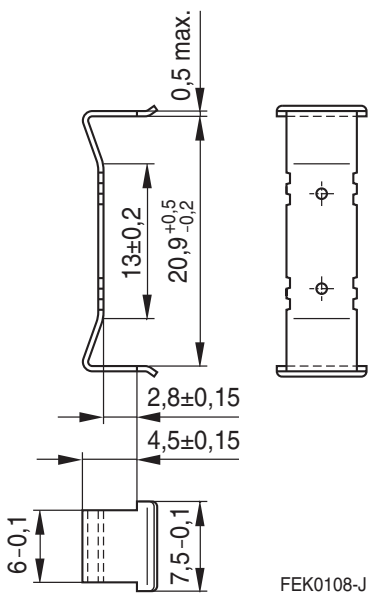


Figure 3, Yoke



**Coil former for luminaires**

■ Also to be used without clamps

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

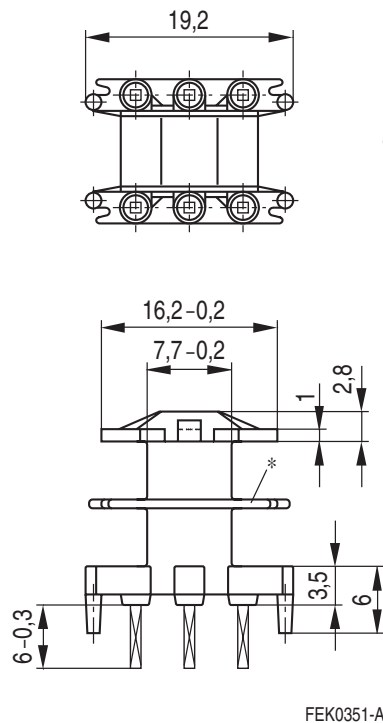
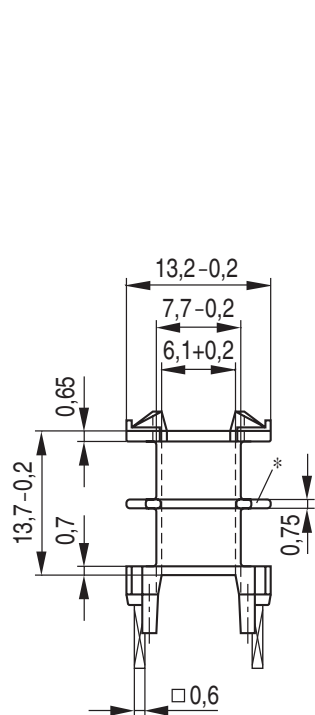
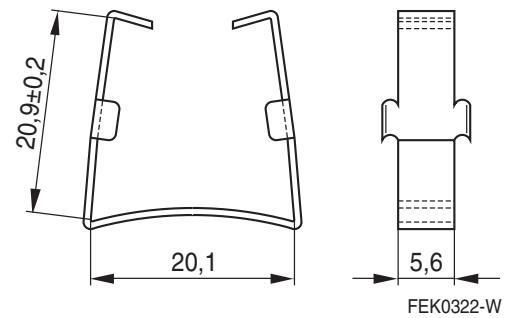
Winding: see "Processing Notes", page 159

Squared pins

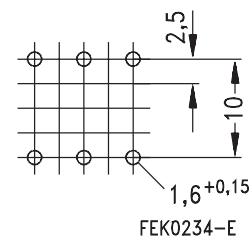
**Yoke**

Material: Nickel silver (0,3 mm)

Sections	$A_N$ mm <sup>2</sup>	$l_N$ mm	$A_R$ value $\mu\Omega$	Pins	Ordering code
1	32,7	42,3	44,5	6	B66206-J1106-T1
2	30,7	42,3	34,4	6	B66206-J1106-T2
Yoke					B66206-A2001

**Coil former**

**Yoke**


Hole arrangement  
View in mounting direction



\* Omitted for one-section version. Where nothing is specified the tolerances are  $\pm 0,1$  mm.

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