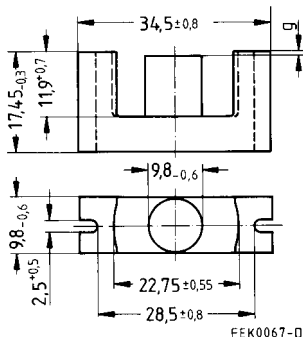


- In accordance with IEC 60647
- Compact E core with large winding window
- Round center leg particularly suitable for use of thick winding wires
- EC cores are supplied as single units

Magnetic characteristics (per set)

$\Sigma l/A = 0,92 \text{ mm}^{-1}$
 $l_e = 77,4 \text{ mm}$
 $A_e = 84,3 \text{ mm}^2$
 $A_{\min} = 71 \text{ mm}^2$
 $V_e = 6530 \text{ mm}^3$

Approx. weight 36 g/set



Ungapped

Material	A_L value nH	μ_e	$A_{L1\min}$ nH	P_V W/set	Ordering code
N27	2100 + 30/- 20 %	1530	1710	1,10 (200 mT, 25 kHz, 100 °C)	B66337-G-X127

Gapped

Material	g mm	A_L value approx. nH	μ_e	Ordering code
N27	0,10 ± 0,02	651	475	B66337-G100-X127
	0,25 ± 0,02	336	245	B66337-G250-X127
	0,50 ± 0,05	203	148	B66337-G500-X127
	1,00 ± 0,05	123	90	B66337-G1000-X127

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)
N27	123	- 0,724	214	- 0,847	198	- 0,865

Validity range: $K1, K2: 0,10 \text{ mm} < s < 2,50 \text{ mm}$
 $K3, K4: 70 \text{ nH} < A_L < 680 \text{ nH}$

Coil former with solder tags

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

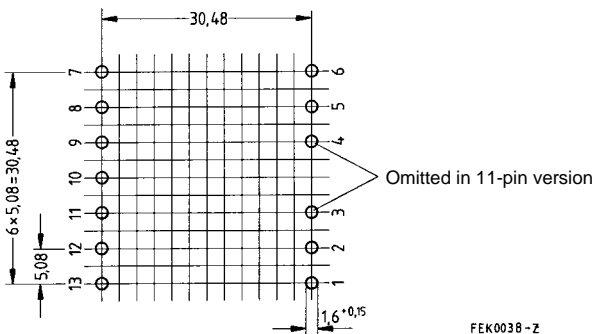
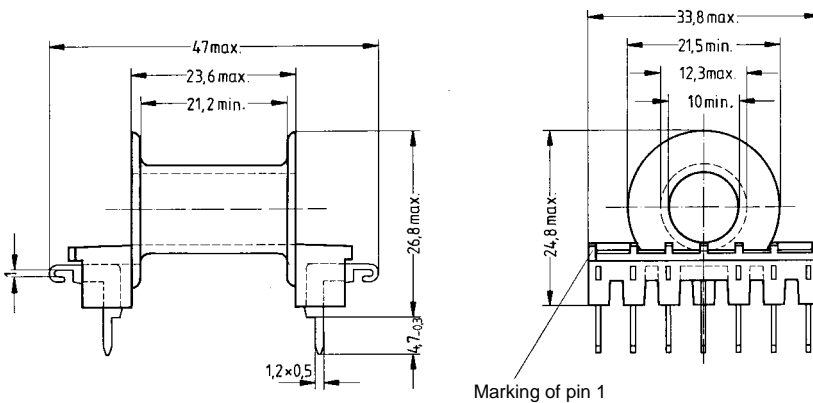
Solder tags hot-tin dipped

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

Winding: see page 158

Also available without solder terminals

Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Terminals	Ordering code
1	97	53	18,8	11	B66272-C1001-T1
				13	B66272-C1002-T1



FEK0038-2

Hole arrangement
View in mounting direction

Coil former with solder pins

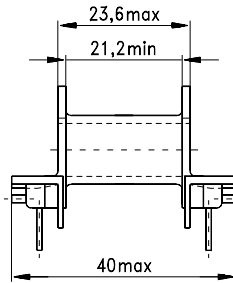
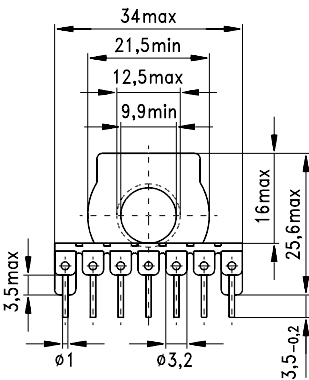
Material: GFR polyterephthalate (UL 94 V-0, insulation class to IEC 60085:
F \triangleq max. operating temperature 155 °C), color code black

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

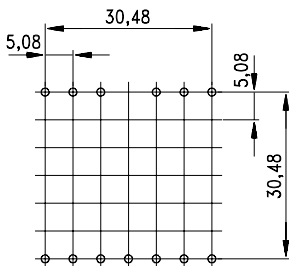
Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s

Winding: see page 158

Sections	A_N mm ²	l_N mm	A_R value $\mu\Omega$	Pins	Ordering code
1	97	53	18,8	13	B66272-J1013-T1



FEK0209-Y



Hole arrangement
View in mounting direction
Mounting holes $\varnothing 1,6^{+0,15}$