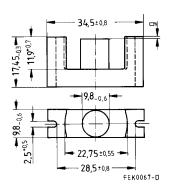
- In accordance with IEC 60647
- Compact E core with large winding window
- Round center leg particularly suitable for use of thick winding wires
- EC cores are supplied as single units

Magnetic characteristics (per set)

 $\begin{array}{ll} \Sigma l/A &= 0.92 \ {\rm mm^{-1}} \\ l_{\rm e} &= 77.4 \ {\rm mm} \\ A_{\rm e} &= 84.3 \ {\rm mm^{2}} \\ A_{\rm min} &= 71 \ {\rm mm^{2}} \\ V_{\rm e} &= 6 \ {\rm 530 \ mm^{3}} \end{array}$

Approx. weight 36 g/set

Ungapped



Material A_L value A_{L1min} P_V Ordering code μ_{e} nΗ nΗ W/set N27 2100 + 30/- 20 % 1530 1710 1,10 B66337-G-X127 (200 mT, 25 kHz, 100 °C)

Gapped

| Material | g mm | A _L value approx. nH | μ _e | Ordering code |
|----------|-------------------|---------------------------------------|----------------|-------------------|
| N27 | 0,10 ± 0,02 | 651 | 475 | B66337-G100-X127 |
| | $0,\!25\pm0,\!02$ | 336 | 245 | B66337-G250-X127 |
| | $0{,}50\pm0{,}05$ | 203 | 148 | B66337-G500-X127 |
| | $1,\!00\pm0,\!05$ | 123 | 90 | B66337-G1000-X127 |

The A_{\perp} 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)

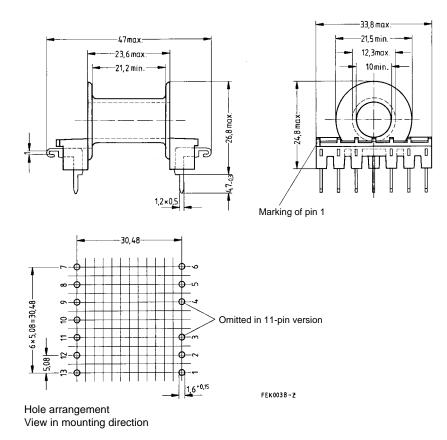
| Material | Relationship between air gap – A_{L} value | | Calculation of saturation current | | | | |
|----------|--|-------------------|-----------------------------------|-------------------|--------------------|--------------------|--|
| | <i>K1</i> (25 °C) | <i>K2</i> (25 °C) | <i>K3</i> (25 °C) | <i>K4</i> (25 °C) | <i>K3</i> (100 °C) | <i>K4</i> (100 °C) | |
| N27 | 123 | - 0,724 | 214 | - 0,847 | 198 | - 0,865 | |

Validity range:

*K*1, *K*2: 0,10 mm < *s* < 2,50 mm *K*3, *K*4: 70 nH < *A*₁ < 680 nH

Coil former with solder tags

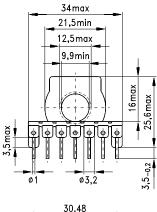
| Sections | A _N mm ² | / _N mm | A _R value μΩ | Terminals | Ordering code |
|----------|-----------------------------------|----------------------|----------------------------|-----------|-----------------|
| 1 | 97 | 53 | 18,8 | 11 | B66272-C1001-T1 |
| | | | | 13 | B66272-C1002-T1 |

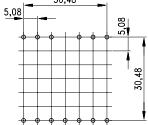


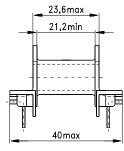
Coil former with solder pins

 $\begin{array}{lll} \mbox{Material:} & \mbox{GFR polyterephthalate (UL 94 V-0, insulation class to IEC 60085: } \\ F \hfill max. operating temperature 155 °C), color code black \\ \mbox{Solderability:} & to IEC 60068-2-20, test Ta, method 1 (aging 3): 235 °C, 2 s \\ \mbox{Resistance to soldering heat: to IEC 60068-2-20, test Tb, method 1B: 350 °C, 3,5 s \\ \mbox{Winding:} & see page 158 \\ \end{array}$

| Sections | A _N mm ² | / _N mm | $A_{\sf R}$ 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}