

401 series design data

switch mode transformers

DESIGN CONSTANTS

| Product Code | A_l frequency > 500 kHz a. | A_l frequency \leq 500 kHz a. | A_l single gap | A_l double gap | A_e core area (mm ²) | l_e magnetic path length (mm) | V_e core volume (mm ³) | W_a bobbin winding area (mm ²) | $W_a C$ core area x winding area (mm ⁴) | Bobbin window width (mm) | Bobbin window height (mm) | Mean length per turn (mm) |
|--------------|------------------------------|-----------------------------------|------------------|------------------|------------------------------------|---------------------------------|--------------------------------------|--|---|--------------------------|---------------------------|---------------------------|
| ER 9.5 | 525 | 950 | 70 | 135 | 8.6 | 14.0 | 120 | 3.1 | 26.7 | 2.15 | 1.43 | 18 |
| ER 11 | 725 | 1400 | 70 | 135 | 11.7 | 14.6 | 170 | 3.3 | 38.6 | 2.00 | 1.65 | 22 |
| ER 14.5 | ----- | 1600 | 70 | 135 | 17.6 | 19.0 | 330 | 5.5 | 96.8 | 2.00 | 2.75 | 27 |

a. A_l measured for ungapped cores. $nH/T^2 \pm 25\%$

