

# DATA SHEET

**T140/106/25**  
**Ferrite toroids**

Supersedes data of September 2004

2008 Sep 01

Ferrite toroids

T140/106/25

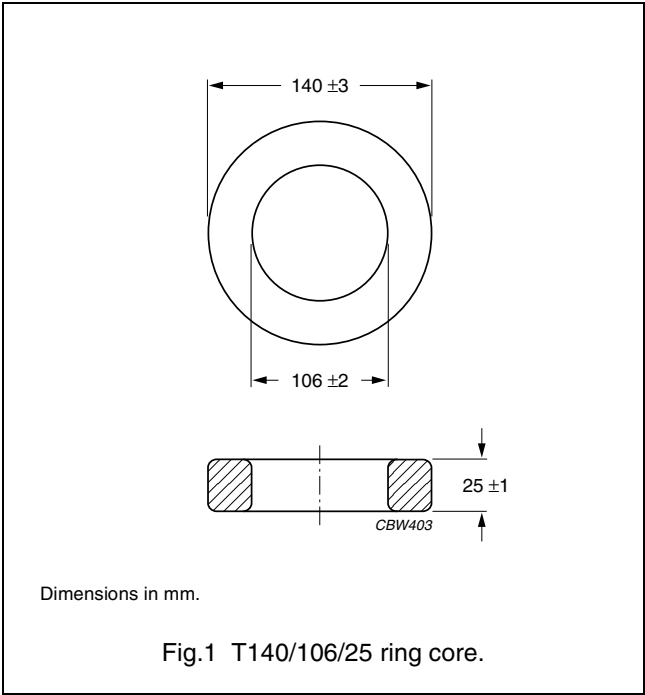
RING CORES (TOROIDS)

Effective core parameters

| SYMBOL        | PARAMETER        | VALUE         | UNIT             |
|---------------|------------------|---------------|------------------|
| $\Sigma(l/A)$ | core factor (C1) | 0.903         | $\text{mm}^{-1}$ |
| $V_e$         | effective volume | 161 100       | $\text{mm}^3$    |
| $l_e$         | effective length | 382           | mm               |
| $A_e$         | effective area   | 422           | $\text{mm}^2$    |
| m             | mass of core     | $\approx 800$ | g                |

Coating

Coated cores are available on request.



Ring core data

| GRADE | $A_L$<br>(nH)   | $\mu_i$        | TYPE NUMBER      |
|-------|-----------------|----------------|------------------|
| 3C90  | $3200 \pm 20\%$ | $\approx 2300$ | T140/106/25-3C90 |
| 3E25  | $7700 \pm 30\%$ | $\approx 5500$ | T140/106/25-3E25 |

Properties of cores under power conditions

| GRADE | B (mT) at                                 | CORE LOSS (W) at  |  |
|-------|---|---|--|
|       | H = 250 A/m;<br>f = 25 kHz;<br>T = 100 °C | f = 25 kHz;<br>$\hat{B} = 200 \text{ mT}$ ;<br>T = 100 °C | f = 100 kHz;<br>$\hat{B} = 100 \text{ mT}$ ;<br>T = 100 °C |
| 3C90  | $\geq 320$                                | $\leq 22.7$   | $\leq 22.7$  |

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## DATA SHEET STATUS DEFINITIONS

| DATA SHEET STATUS         | PRODUCT STATUS | DEFINITIONS  |
|---------------------------|----------------|--|
| Preliminary specification | Development    | This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.     |
| Product specification     | Production     | This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product. |

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## PRODUCT STATUS DEFINITIONS

| STATUS           | INDICATION  | DEFINITION   |
|------------------|---|--|
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