

# DATA SHEET

**TC8.2/3.7/4**  
Ferrite toroids

Supersedes data of February 2002

2004 Sep 01

## Ferrite toroids

TC8.2/3.7/4

## RING CORES (TOROIDS)

## Effective core parameters

| SYMBOL        | PARAMETER        | VALUE         | UNIT             |
|---------------|------------------|---------------|------------------|
| $\Sigma(l/A)$ | core factor (C1) | 1.99          | $\text{mm}^{-1}$ |
| $V_e$         | effective volume | 144           | $\text{mm}^3$    |
| $l_e$         | effective length | 16.9          | mm               |
| $A_e$         | effective area   | 8.5           | $\text{mm}^2$    |
| m             | mass of core     | $\approx 0.7$ | g                |

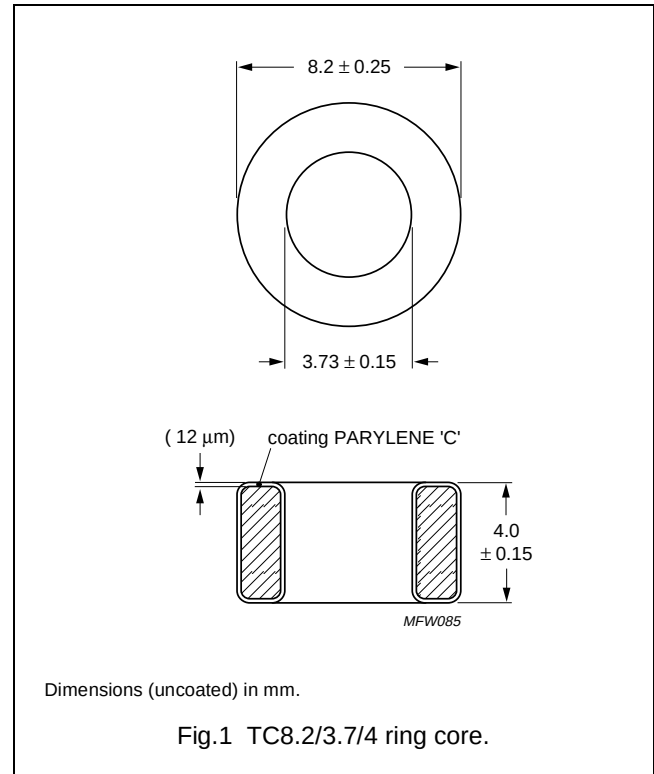
## Coating

The cores are coated with parylene C, flame retardant in accordance with "UL 94V-2"; UL file number E 194397. The coating is transparent.

## Isolation voltage

DC isolation voltage: 1000 V.

Contacts are applied on the edge of the ring core, which is also the critical point for the winding operation.



## Ring core data

| GRADE                                                                                | $A_L$<br>(nH)   | $\mu_i$             | TYPE NUMBER      |
|--------------------------------------------------------------------------------------|-----------------|---------------------|------------------|
| 4A11 <span style="background-color: black; color: white; padding: 0 2px;">des</span> | $537 \pm 25\%$  | $\approx 700^{(1)}$ | TC8.2/3.7/4-4A11 |
| 3E7 <span style="background-color: black; color: white; padding: 0 2px;">des</span>  | $7560 \pm 30\%$ | $\approx 12000$     | TC8.2/3.7/4-3E7  |

1. Old permeability specification maintained.

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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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