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# DATA SHEET

**TX42/26/13**  
Ferrite toroids

Supersedes data of September 2004

2008 Sep 01

**RING CORES (TOROIDS)**

**Effective core parameters**

| SYMBOL        | PARAMETER        | VALUE | UNIT             |
|---------------|------------------|-------|------------------|
| $\Sigma(l/A)$ | core factor (C1) | 1.076 | mm <sup>-1</sup> |
| $V_e$         | effective volume | 9860  | mm <sup>3</sup>  |
| $l_e$         | effective length | 103   | mm               |
| $A_e$         | effective area   | 95.8  | mm <sup>2</sup>  |
| m             | mass of core     | ≈ 53  | g                |

**Coating**

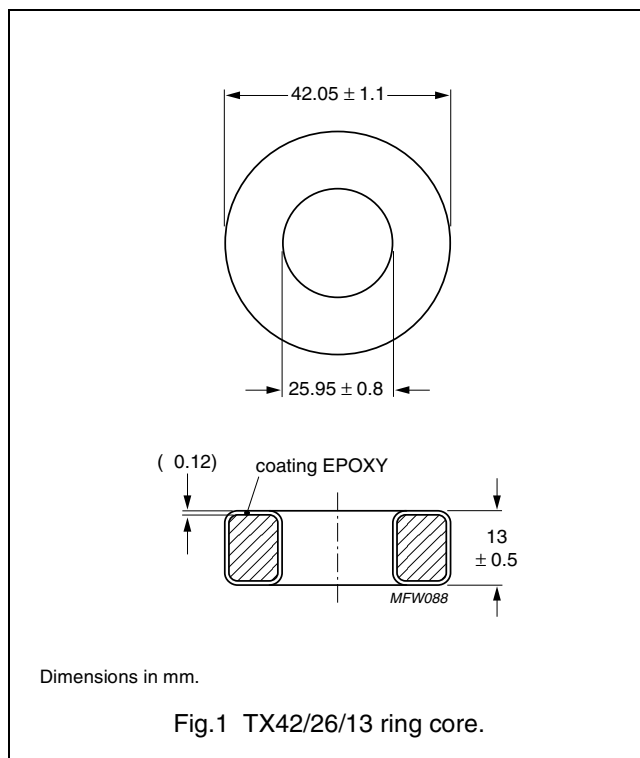
The cores are coated with epoxy, flame retardant in accordance with "UL 94V-0"; UL file number E 228348. The colour is white.

Maximum operating temperature is 200 °C.

**Isolation voltage**

DC isolation voltage: 2000 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 | $A_L$ (nH) | $\mu_i$              | TYPE NUMBER     |
|-------|------------|----------------------|-----------------|
| 3C90  | 2690 ± 25% | ≈ 2300               | TX42/26/13-3C90 |
| 3C11  | 5000 ± 25% | ≈ 4300               | TX42/26/13-3C11 |
| 3E25  | 6425 ± 25% | ≈ 5500               | TX42/26/13-3E25 |
| 3E27  | 6425 ± 25% | ≈ 5500               | TX42/26/13-3E27 |
| 4A11  | 820 ± 25%  | ≈ 700 <sup>(1)</sup> | TX42/26/13-4A11 |

1. Old permeability specification maintained.

**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>B = 200 mT;<br>T = 100 °C | f = 100 kHz;<br>B = 100 mT;<br>T = 100 °C |
| 3C90  | ≥320                                      | ≤ 1.1                                    | ≤ 1.1                                     |




**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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