

DATA SHEET

U25/16/6

U, I cores and accessories

Supersedes data of September 2004

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FERROXCUBE
A YAGEO COMPANY

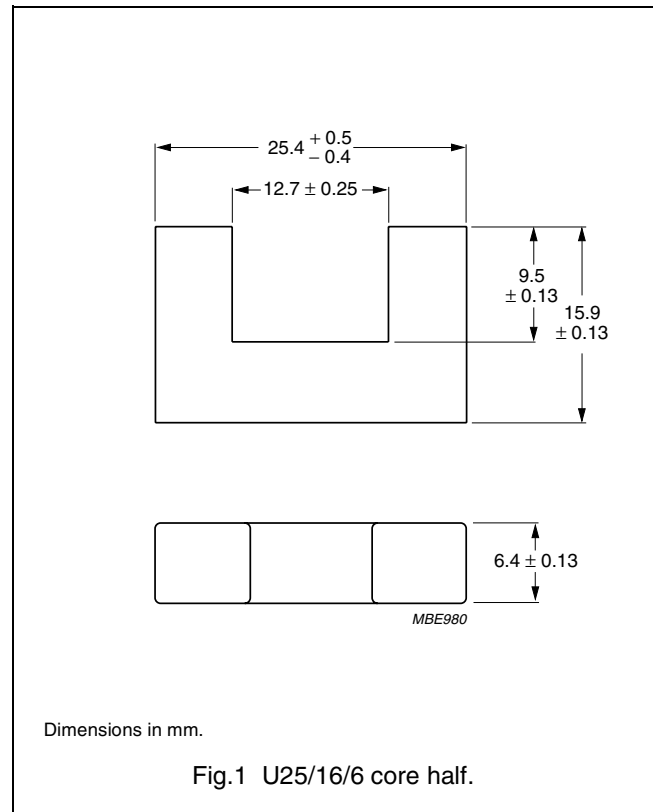
U, I cores and accessories

U25/16/6
(376U250)

CORE SETS

Effective core parameters

| SYMBOL | PARAMETER | VALUE | UNIT |
|---------------|-------------------|-------|------------------|
| $\Sigma(l/A)$ | core factor (C1) | 2.07 | mm ⁻¹ |
| V_e | effective volume | 3380 | mm ³ |
| l_e | effective length | 83.6 | mm |
| A_e | effective area | 40.3 | mm ² |
| m | mass of core half | ≈ 8.0 | g |



Core halves

A_L measured on a combination of 2 U cores.

| GRADE | A_L (nH) | μ_e | TYPE NUMBER |
|--|---------------|---------|---------------|
| 3C81 | 1400 ±25% | ≈ 2300 | U25/16/6-3C81 |
| 3C90 | 1200 ±25% | ≈ 2300 | U25/16/6-3C90 |
| 3C91 des | 1400 ±25% | ≈ 2300 | U25/16/6-3C91 |
| 3C94 | 1200 ±25% | ≈ 2300 | U25/16/6-3C94 |
| 3C11 | 2050 ±25% | ≈ 3380 | U25/16/6-3C11 |
| 3E27 | 2500 ±25% | ≈ 4130 | U25/16/6-3E27 |

Properties of core sets under power conditions

| GRADE | B (mT) at | CORE LOSS (W) at | | | |
|-------|---|--|---|---|--|
| | H = 250 A/m; f = 25 kHz; T = 100 °C | f = 25 kHz; \hat{B} = 200 mT; T = 100 °C | f = 100 kHz; \hat{B} = 100 mT; T = 100 °C | f = 100 kHz; \hat{B} = 200 mT; T = 100 °C | f = 400 kHz; \hat{B} = 50 mT; T = 100 °C |
| 3C81 | ≥320 | ≤ 0.78 | – | – | – |
| 3C90 | ≥320 | ≤ 0.4 | ≤ 0.4 | – | – |
| 3C91 | ≥320 | – | ≤ 0.23 ⁽¹⁾ | ≤ 1.6 ⁽¹⁾ | – |
| 3C94 | ≥320 | – | ≤ 0.3 | ≤ 2.0 | – |

Note

1. Measured at 60 °C.

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DATA SHEET STATUS DEFINITIONS

| DATA SHEET STATUS | PRODUCT STATUS | DEFINITIONS |
|---------------------------|----------------|--|
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