

# DATA SHEET

**I25/6/6**

U, I cores and accessories

Supersedes data of September 2004

2008 Sep 01

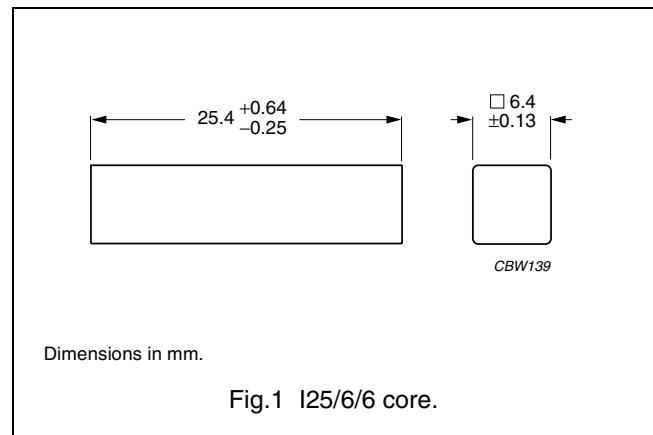


**FERROXCUBE**  
A YAGEO COMPANY

**CORE SETS**

Effective core parameters measured in combination with U25/16/6

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	1.59	mm <sup>-1</sup>
$V_e$	effective volume	2590	mm <sup>3</sup>
$l_e$	effective length	64.3	mm
$A_e$	effective area	40.3	mm <sup>2</sup>
m	mass of I core	≈ 4.5	g



**Core halves**

$A_L$  measured in combination with "U25/16/6".

GRADE	$A_L$ (nH)	$\mu_e$	TYPE NUMBER
3C81	1750 ±25%	≈ 2210	I25/6/6-3C81
3C90	1500 ±25%	≈ 1900	I25/6/6-3C90
3C91 <small>des</small>	1750 ±25%	≈ 2210	I25/6/6-3C91
3C94	1500 ±25%	≈ 1900	I25/6/6-3C94
3C11	2500 ±25%	≈ 3160	I25/6/6-3C11
3E27	3000 ±25%	≈ 3800	I25/6/6-3E27

**Properties of core sets under power conditions**

Measured in combination with "U25/16/6".

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
3C81	≥320	≤ 0.6	–	–
3C90	≥320	≤ 0.3	≤ 0.3	–
3C91	≥320	–	≤ 0.18 <sup>(1)</sup>	≤ 1.2 <sup>(1)</sup>
3C94	≥320	–	≤ 0.23	≤ 1.6

**Note**

1. Measured at 60 °C.

## U, I cores and accessories

I25/6/6  
(376B250)**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
<b>Prototype</b>		These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.
<b>Design-in</b>		These products are recommended for new designs.
<b>Preferred</b>		These products are recommended for use in current designs and are available via our sales channels.
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