

DATA SHEET

I25/6/6

U, I cores and accessories

Supersedes data of September 2004

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FERROXCUBE
A YAGEO COMPANY

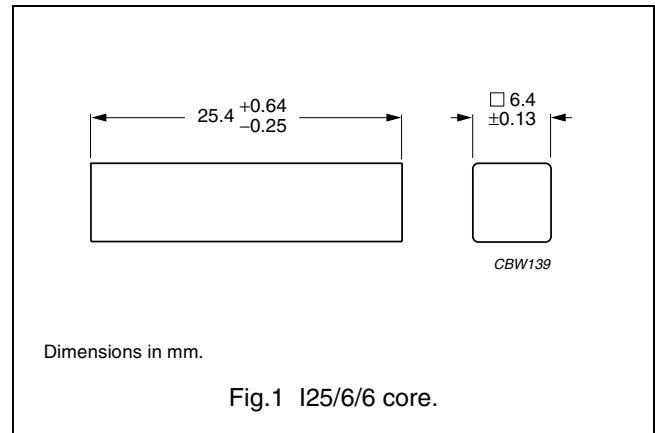
U, I cores and accessories

I25/6/6
(376B250)

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 ⁻¹
V_e	effective volume	2590	mm ³
l_e	effective length	64.3	mm
A_e	effective area	40.3	mm ²
m	mass of I core	≈ 4.5	g



Core halves

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

GRADE	A_L (nH)	μ_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 ⁽¹⁾	≤ 1.2 ⁽¹⁾
3C94	≥320	–	≤ 0.23	≤ 1.6

Note

1. Measured at 60 °C.

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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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Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support		These products are not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.