

# DATA SHEET

**I100/25/25**

U, I cores and accessories

Supersedes data of September 2004

2008 Sep 01

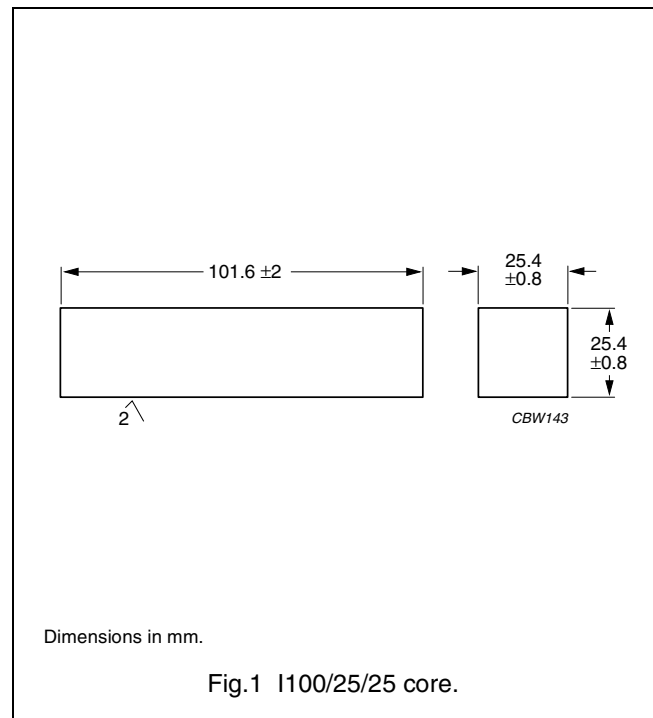


**FERROXCUBE**  
A YAGEO COMPANY

**CORE SETS**

Effective core parameters in combination with U100/57/25

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)	0.379	mm <sup>-1</sup>
$V_e$	effective volume	158000	mm <sup>3</sup>
$l_e$	effective length	245	mm
$A_e$	effective area	645	mm <sup>2</sup>
m	mass of core	≈ 300	g



**Core data**

$A_L$  measured in combination with "U100/57/25".

GRADE	$A_L$ (nH)	$\mu_e$	TYPE NUMBER
3C90	6700 ±25%	≈ 2150	I100/25/25-3C90
3C94	6700 ±25%	≈ 2150	I100/25/25-3C94

**Properties of core sets under power conditions**

Core loss measured in combination with "U100/57/25".

GRADE	B (mT) at	CORE LOSS (W) at	
	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 25 kHz; B = 200 mT; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C
3C90	≥ 330	≤ 21	≤ 25
3C94	≥ 330	–	≤ 21




**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.
<b>Support</b>		These products are <b>not</b> recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.