

# DATA SHEET

**I93/28/30**

U, I cores and accessories

Supersedes data of September 2004

2008 Sep 01



**FERROXCUBE**  
A YAGEO COMPANY

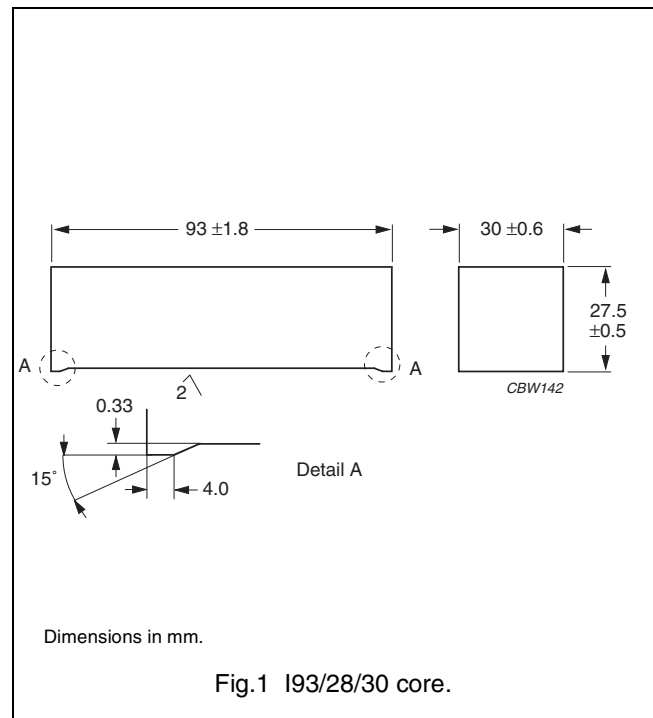
**CORE SETS**

**Effective core parameters in combination with U93/52/30**

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)	0.251	mm <sup>-1</sup>
$V_e$	effective volume	175000	mm <sup>3</sup>
$l_e$	effective length	210	mm
$A_e$	effective area	836	mm <sup>2</sup>
m	mass of core	≈ 370	g

**Effective core parameters in combination with U93/76/30**

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)	0.307	mm <sup>-1</sup>
$V_e$	effective volume	217000	mm <sup>3</sup>
$l_e$	effective length	258	mm
$A_e$	effective area	840	mm <sup>2</sup>
m	mass of core	≈ 370	g



**Core data**

GRADE	$A_L$ (nH)	$\mu_e$	TYPE NUMBER
3C90	10700 ±25% <sup>(1)</sup>	≈ 2150	I93/28/30-3C90
	8700 ±25% <sup>(2)</sup>	≈ 2150	
3C94	10700 ±25% <sup>(1)</sup>	≈ 2150	I93/28/30-3C94
	8700 ±25% <sup>(2)</sup>	≈ 2150	

**Notes**

1. Measured in combination with "U93/52/30".
2. Measured in combination with "U93/76/30".

**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; B = 200 mT; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C
3C90	≥330	≤ 24 <sup>(1)</sup>	≤ 31 <sup>(1)</sup>
	≥330	≤ 28 <sup>(2)</sup>	≤ 38 <sup>(2)</sup>
3C94	≥330	–	≤ 24 <sup>(1)</sup>
	≥330	–	≤ 30 <sup>(2)</sup>

**Notes**

1. Measured in combination with "U93/52/30".
2. Measured in combination with "U93/76/30".




**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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STATUS	INDICATION	DEFINITION
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