

# DATA SHEET

**E25/17/6**

**EI cores**

Supersedes data of September 2004

2008 Sep 01



**FERROXCUBE**  
A YAGEO COMPANY

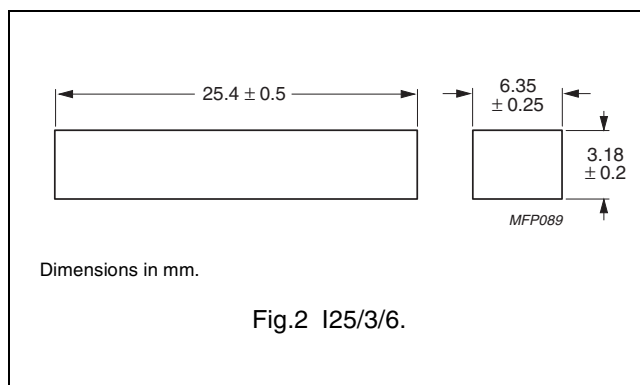
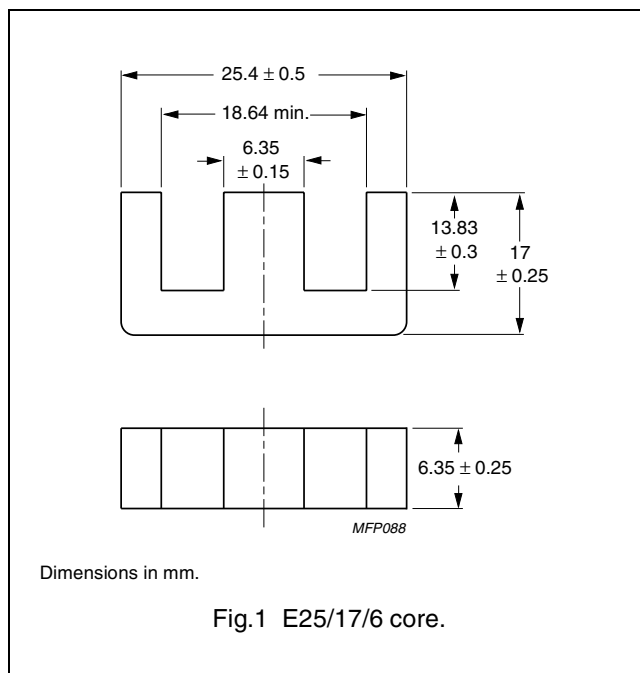
**CORES**

**Effective core parameters of an E / I combination**

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	1.27	mm <sup>-1</sup>
$V_e$	effective volume	2070	mm <sup>3</sup>
$l_e$	effective length	51.3	mm
$A_e$	effective area	40.3	mm <sup>2</sup>
$A_{min}$	minimum area	39.0	mm <sup>2</sup>
m	mass of E core	≈ 8.0	g
m	mass of I core	≈ 2.5	g

**Ordering information for I cores**

GRADE	TYPE NUMBER
3C90	I25/3/6-3C90



**Core halves for use in combination with an I core**

$A_L$  measured in combination with an I core, clamping force for  $A_L$  measurements 20 ± 10 N;

GRADE	$A_L$ (nH)	$\mu_e$	AIR GAP ( $\mu$ m)	TYPE NUMBER
3C90	1750 ± 25 %	≈ 1770	≈ 0	E25/17/6-3C90

**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
E25/17/6+I25/3/6-3C90	≥ 330	≤ 0.24	≤ 0.24




**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.
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<b>Preferred</b>		These products are recommended for use in current designs and are available via our sales channels.
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