DATA SHEET

E25/17/6 El cores

New data 2004 Sep 01



El cores E25/17/6

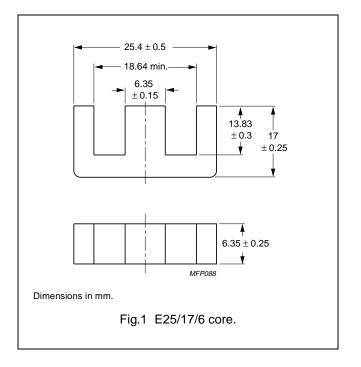
CORES

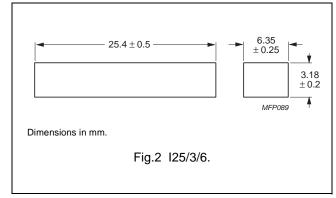
Effective core parameters of an E / I combination

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1) 1.27		mm ⁻¹
V _e	effective volume	2070	mm ³
l _e	effective length 51.3		mm
A _e	effective area	40.3	mm ²
A _{min}	minimum area	39.0	mm ²
m	mass of E core ≈ 8.0 g		g
m	mass of I core ≈ 2.5 g		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 \pm 10 N;

GRADE	A _L (nH)	$\mu_{\mathbf{e}}$	AIR GAP (μm)	TYPE NUMBER
3C90	1750 ± 25 %	≈ 1770	≈ 0	E25/17/6-3C90

Properties of core sets under power conditions

	B (mT) at	CORE LOSS (W) at		
GRADE	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	
E25/17/6+I25/3/6-3C90	≥ 330	≤ 0.24	≤ 0.24	

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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	
Prototype	prot	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.	
Design-in	des	These products are recommended for new designs.	
Preferred		These products are recommended for use in current designs and are available via our sales channels.	
Support	sup	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.	

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