

DATA SHEET

E25/9/6

E cores and accessories

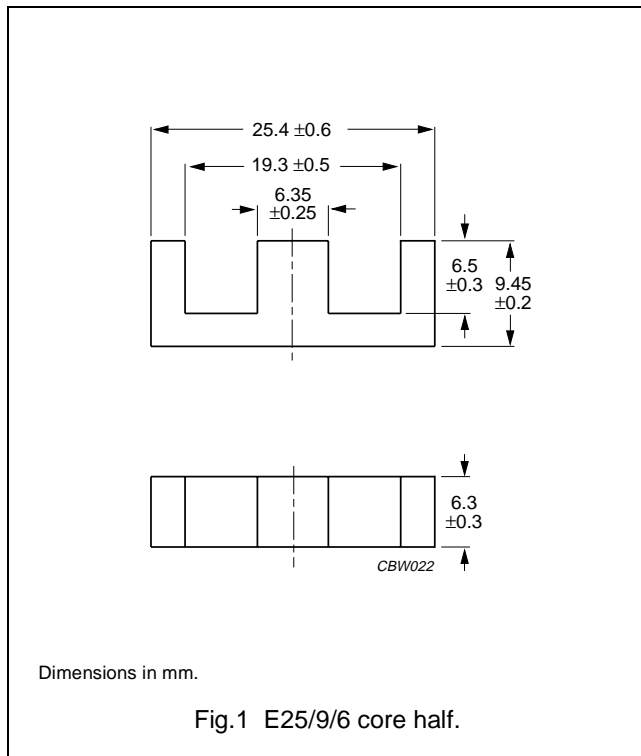
Supersedes data of February 2002

2004 Sep 01

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	1.23	mm ⁻¹
V_e	effective volume	1860	mm ³
l_e	effective length	47.4	mm
A_e	effective area	38.4	mm ²
A_{min}	minimum area	37.0	mm ²
m	mass of core half	≈ 4.8	g



Core halves

Clamping force for A_L measurements 20 ± 10 N. Gapped cores are available on request.

GRADE	A_L (nH)	μ_e	AIR GAP (μm)	TYPE NUMBER
3C90	2000 ± 25%	≈ 1950	≈ 0	E25/9/6-3C90
3C92 des	1320 ± 25%	≈ 1290	≈ 0	E25/9/6-3C92
3C94	1600 ± 25%	≈ 1540	≈ 0	E25/9/6-3C94

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	f = 100 kHz; B = 200 mT; T = 100 °C	f = 400 kHz; B = 50 mT; T = 100 °C
3C90	≥ 330	≤ 0.20	≤ 0.22	–	–
3C92	≥ 370	–	≤ 0.17	≤ 1.1	–
3C94	≥ 330	–	≤ 0.17	≤ 1.1	–




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		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		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		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.