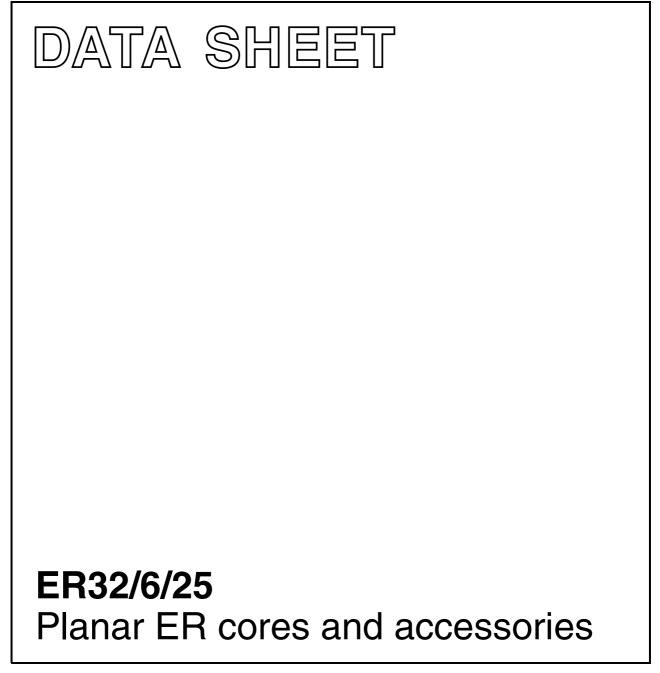
FERROXCUBE



Supersedes data of September 2004

2008 Sep 01



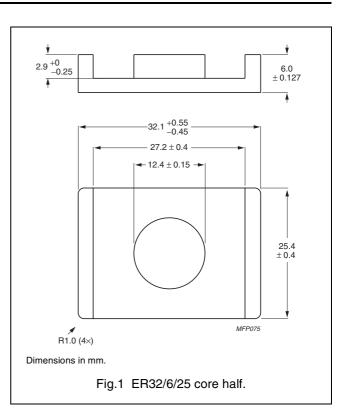
Planar ER cores and accessories

ER32/6/25

CORE SETS

Effective core parameters

SYMBOL	PARAMETER VALUE		UNIT
Σ(I/A)	core factor (C1)	0.270	mm ⁻¹
Ve	effective volume	5400	mm ³
l _e	effective length	38.2	mm
A _e	effective area	141	mm ²
A _{min}	minimum area	121	mm ²
m	mass of core half	≈ 16	g



Core sets for general purpose transformers and power applications

Clamping force for A_L measurements, 50 \pm 20 N.

GRADE	A _L (nH)	μ _e	AIR GAP (μm)	TYPE NUMBER
3C92 des	5700 ± 25 %	≈ 1220	≈ 0	ER32/6/25-3C92-S
3C93 des	$6600\pm25~\%$	≈ 1420	≈ 0	ER32/6/25-3C93-S
3C95 des	$9640\pm25~\%$	≈ 2080	≈ 0	ER32/6/25-3C95-S
3C96 des	7160 ±25 %	≈ 1540	≈ 0	ER32/6/25-3C96-S
3F3	7160 ±25 %	≈ 1540	≈ 0	ER32/6/25-3F3-S

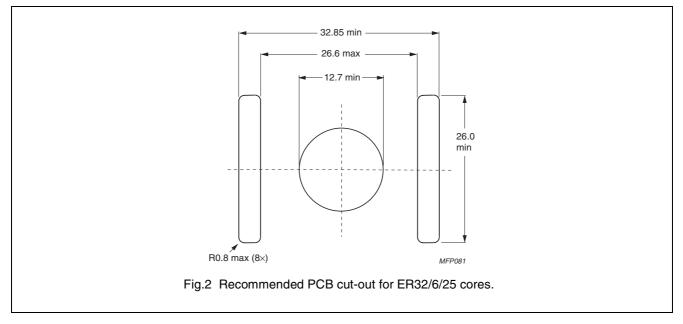
Properties of core sets under power conditions

	B (mT) at		C	ORE LOSS (W)	at	
GRADE	H = 250 A/m; f = 25 kHz; T = 100 ℃	f = 100 kHz; B = 100 mT; T = 100 °C	f = 100 kHz; B = 200 mT; T = 25 °C	f = 100 kHz; B = 200 mT; T = 100 °C	f = 400 kHz; Ê = 50 mT; T = 100 °C	f = 500 kHz; Ê = 50 mT; T = 100 °C
3C92	≥ 370	≤ 0.45	_	≤ 3.0	_	-
3C93	≥ 320	≤ 0.45 ⁽¹⁾	-	$\leq 3.0^{(1)}$	-	—
3C95	≥ 320	_	≤ 3.5	≤ 3.33	_	_
3C96	≥ 340	≤ 0.3	_	≤ 2.2	_	≤ 1.9
3F3	≥ 300	≤ 0.65	_	_	≤ 1.0	_

1. Measured at 140 $^\circ\text{C}.$

Planar ER cores and accessories

MOUNTING INFORMATION



Winding data for ER32/6/25 planar core

WINDING AREA	AVERAGE TRACK LENGTH	FOOTPRINT AREA
(mm ²)	(mm)	(mm ²)
41.1	62.2	828

Planar ER cores and accessories

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.

DISCLAIMER

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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.