### **FERROXCUBE**

# DATA SHEET

# U30/25/16 U, I cores and accessories

Supersedes data of September 2004

2008 Sep 01



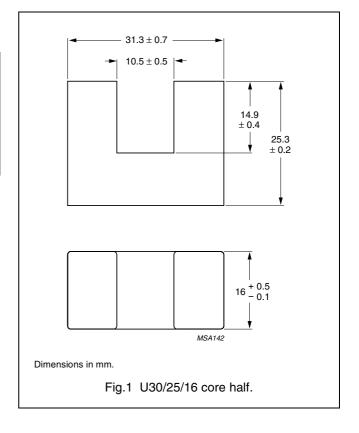
# U, I cores and accessories

U30/25/16

#### **CORE SETS**

#### Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	0.690	mm <sup>-1</sup>
V <sub>e</sub>	effective volume	17900	mm <sup>3</sup>
l <sub>e</sub>	effective length	111	mm
A <sub>e</sub>	effective area	161	mm <sup>2</sup>
m	mass of core half	≈ 43	g



#### **Core halves**

 $A_L$  measured on a combination of 2 U cores.

GRADE	A <sub>L</sub> (nH)	μ <sub>e</sub>	TYPE NUMBER
3C90	3700 ±25%	≈ <b>2030</b>	U30/25/16-3C90
3C94	3700 ±25%	≈ <b>2030</b>	U30/25/16-3C94

#### 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	f = 100 kHz; B = 200 mT; T = 100 °C
3C90	≥ 320	≤ 2.2	≤ 2.3	_
3C94	≥ 320	-	≤ 1.8	≤11

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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 <b>not</b> 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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