

# DATA SHEET

**TC5.8/3.1/1.5**  
Ferrite toroids

Supersedes data of February 2002

2004 Sep 01

## Ferrite toroids

TC5.8/3.1/1.5

## RING CORES (TOROIDS)

## Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	6.52	$\text{mm}^{-1}$
$V_e$	effective volume	26.1	$\text{mm}^3$
$l_e$	effective length	13.0	mm
$A_e$	effective area	2.00	$\text{mm}^2$
m	mass of core	$\approx 0.13$	g

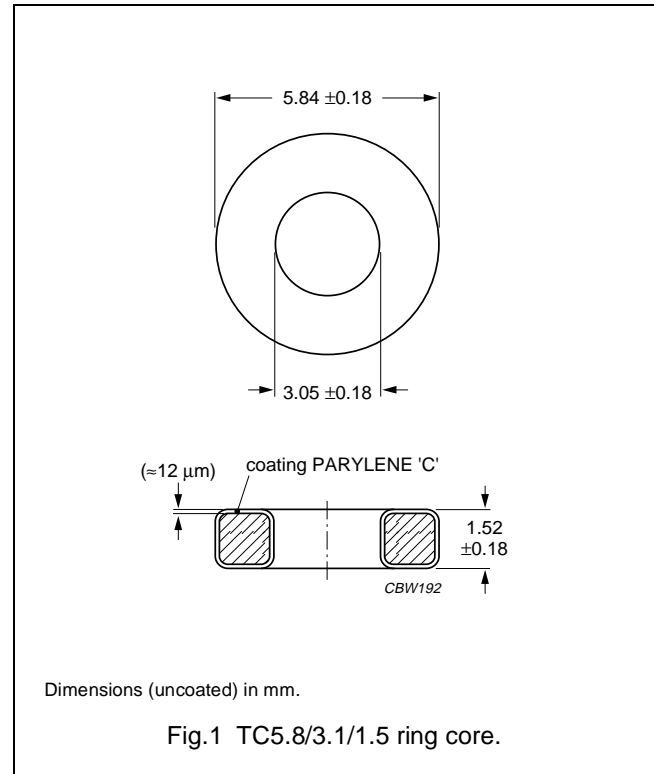
## Coating

The cores are coated with parylene C, flame retardant in accordance with "UL 94V-2"; UL file number E 194397. The coating is transparent.

## Isolation voltage

DC isolation voltage: 1000 V.

Contacts are applied on the edge of the ring core, which is also the critical point for the winding operation.



## Ring core data

GRADE	$A_L$ (nH)	$\mu_i$	TYPE NUMBER
4C65	$25 \pm 25\%$	$\approx 125$	TC5.8/3.1/1.5-4C65
4B1 <small>des</small>	$50 \pm 25\%$	$\approx 250$	TC5.8/3.1/1.5-4B1
3B7 <small>sup</small>	$450 \pm 20\%$	$\approx 2300$	TC5.8/3.1/1.5-3B7 <sup>(1)</sup>
3E27	$890 \pm 20\%$	$\approx 4600$	TC5.8/3.1/1.5-3E27
3E6	$1960 \pm 30\%$	$\approx 9925$	TC5.8/3.1/1.5-3E6
3E8 <small>prot</small>	$2940 \pm 30\%$	$\approx 15000$	TC5.8/3.1/1.5-3E8

## Note

1. OD =  $6 \pm 0.18$

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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
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Preferred		These products are recommended for use in current designs and are available via our sales channels.
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