

# DATA SHEET

## **TC6/4/2** Ferrite toroids

Supersedes data of February 2002

2004 Sep 01

## Ferrite toroids

TC6/4/2

## RING CORES (TOROIDS)

## Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	7.75	$\text{mm}^{-1}$
$V_e$	effective volume	30.2	$\text{mm}^3$
$l_e$	effective length	15.3	mm
$A_e$	effective area	1.97	$\text{mm}^2$
m	mass of core	$\approx 0.15$	g

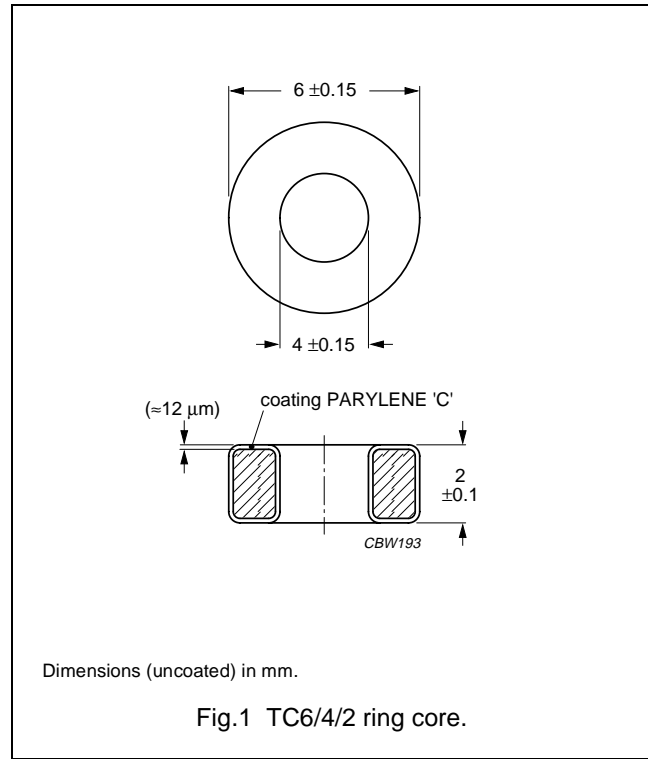
## Coating

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	$20 \pm 25\%$	$\approx 125$	TC6/4/2-4C65
4A11	$138 \pm 25\%$	$\approx 700^{(1)}$	TC6/4/2-4A11
3S4 <span style="background-color: black; color: white; font-size: 0.8em;">des</span>	$275 \pm 25\%$	$\approx 1700$	TC6/4/2-3S4
3F3	$325 \pm 25\%$	$\approx 2000$	TC6/4/2-3F3
3E25	$890 \pm 30\%$	$\approx 5500$	TC6/4/2-3E25
3E5	$1380 \pm 30\%$	$\approx 8500$	TC6/4/2-3E5
3E6 <span style="background-color: black; color: white; font-size: 0.8em;">des</span>	$1620 \pm 30\%$	$\approx 10000$	TC6/4/2-3E6

1. Old permeability specification maintained.

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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.
Support		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.