

# DATA SHEET

## **TC2.5/1.5/1-S** Ferrite toroids

Supersedes data of November 2000

2002 Feb 01

Ferrite toroids

TC2.5/1.5/1-S

RING CORES (TOROIDS)

Effective core parameters

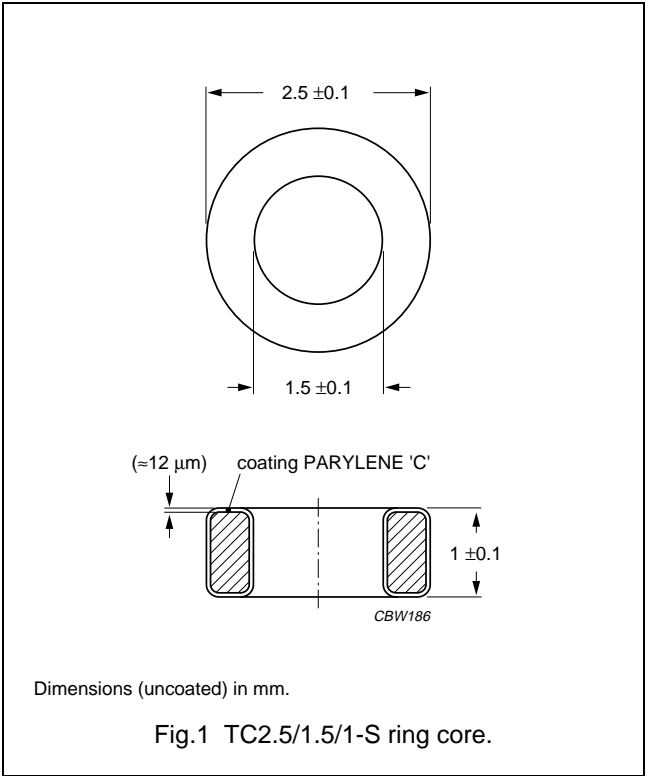
SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	12.3	$\text{mm}^{-1}$
$V_e$	effective volume	2.94	$\text{mm}^3$
$l_e$	effective length	6.02	mm
$A_e$	effective area	0.489	$\text{mm}^2$
m	mass of core	$\approx 0.015$	g

Coating

The cores are coated with parylene C, flame retardant in accordance with “UL 94V-2”; UL file number E 94133 (M).

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
4A11 <span>des</span>	$71 \pm 25\%$	$\approx 700$	TC2.5/1.5/1-4A11-S
3E28 <span>des</span>	$410 \pm 25\%$	$\approx 4000$	TC2.5/1.5/1-3E28-S
3E27 <span>des</span>	$513 \pm 20\%$	$\approx 5500$	TC2.5/1.5/1-3E27-S
3E5 <span>des</span>	$920 \pm 30\%$	$\approx 9000$	TC2.5/1.5/1-3E5-S
3E6 <span>des</span>	$1020 \pm 30\%$	$\approx 10\,000$	TC2.5/1.5/1-3E6-S

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TC2.5/1.5/1-S




## 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 <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.