

# DATA SHEET

**TC2.5/1.5/1**  
Ferrite toroids

Supersedes data of February 2002

2004 Sep 01

**RING CORES (TOROIDS)**

**Effective core parameters**

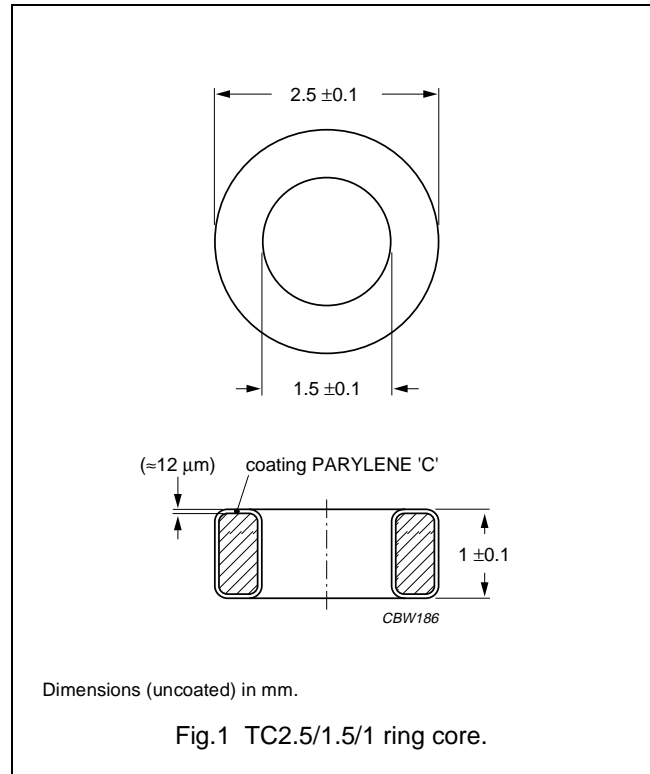
SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	12.3	mm <sup>-1</sup>
$V_e$	effective volume	2.94	mm <sup>3</sup>
$l_e$	effective length	6.02	mm
$A_e$	effective area	0.489	mm <sup>2</sup>
m	mass of core	≈0.015	g

**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
4A11 <span style="background-color: black; color: white; padding: 0 2px;">des</span>	87 ± 25%	≈ 700 <sup>(1)</sup>	TC2.5/1.5/1-4A11
3E28 <span style="background-color: black; color: white; padding: 0 2px;">des</span>	410 ± 25%	≈ 4000	TC2.5/1.5/1-3E28
3E27 <span style="background-color: black; color: white; padding: 0 2px;">des</span>	513 ± 20%	≈ 5500	TC2.5/1.5/1-3E27
3E5 <span style="background-color: black; color: white; padding: 0 2px;">des</span>	920 ± 30%	≈ 9000	TC2.5/1.5/1-3E5
3E6 <span style="background-color: black; color: white; padding: 0 2px;">des</span>	1020 ± 30%	≈ 10000	TC2.5/1.5/1-3E6

1. Old permeability specification maintained.




**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
<b>Prototype</b>		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.
<b>Design-in</b>		These products are recommended for new designs.
<b>Preferred</b>		These products are recommended for use in current designs and are available via our sales channels.
<b>Support</b>		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.