### **FERROXCUBE**

## DATA SHEET

# TC4/2.2/1.6 Ferrite toroids

Supersedes data of September 2004

2008 Sep 01



Ferrite toroids TC4/2.2/1.6

#### **RING CORES (TOROIDS)**

#### **Effective core parameters**

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1) 6.56 n		mm <sup>-1</sup>
V <sub>e</sub>	effective volume	12.9	mm <sup>3</sup>
l <sub>e</sub>	effective length	9.18	mm
A <sub>e</sub>	effective area	1.4	mm <sup>2</sup>
m	mass of core ≈ 0.06		g

#### Coating

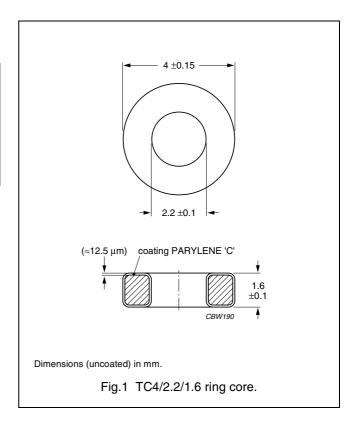
The cores are coated with parylene C, flame retardant in accordance with "UL 94V-2"; UL file number E 194397. The coating is transparent.

Maximum operating temperature is 90 °C.

#### 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 <sub>L</sub> (nH)	μί	TYPE NUMBER
4C65	$24\pm25\%$	≈ <b>12</b> 5	TC4/2.2/1.6-4C65
4A11	134 ± 25%	≈ 700 <sup>(1)</sup>	TC4/2.2/1.6-4A11
3S4 des	325 ± 25%	≈ <b>1700</b>	TC4/2.2/1.6-3S4
3F3	$380\pm25\%$	≈ 2000	TC4/2.2/1.6-3F3
3E25	1050 ± 30%	≈ <b>5</b> 500	TC4/2.2/1.6-3E25
3E5	1630 ± 30%	≈ <b>8500</b>	TC4/2.2/1.6-3E5
3E6 des	1915 ± 30%	≈ <b>10000</b>	TC4/2.2/1.6-3E6

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
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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