

# DATA SHEET

## **TX22/14/6.4** Ferrite toroids

Supersedes data of September 2004

2008 Sep 01



**FERROXCUBE**  
A YAGEO COMPANY



Ferrite toroids

TX22/14/6.4

RING CORES (TOROIDS)

Effective core parameters

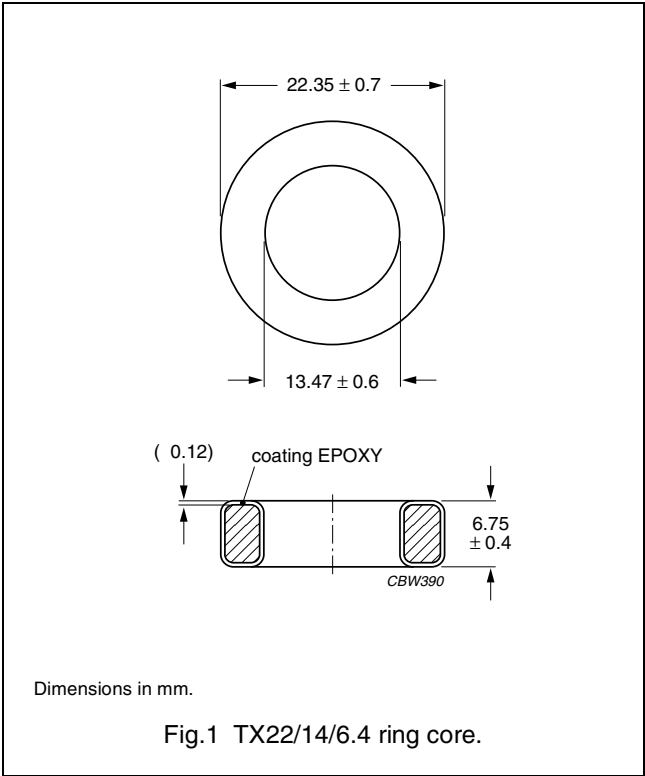
SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	2.20	$\text{mm}^{-1}$
$V_e$	effective volume	1340	$\text{mm}^3$
$l_e$	effective length	54.2	mm
$A_e$	effective area	24.8	$\text{mm}^2$
m	mass of core	$\approx 6.5$	g

Coating

The cores are coated with epoxy, flame retardant in accordance with “UL 94V-0”; UL file number E 228348. The colour is white. Maximum operating temperature is 200 °C.

Isolation voltage

DC isolation voltage: 2000 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	$75 \pm 25\%$	$\approx 125$	TX22/14/6.4-4C65
3D3	$454 \pm 20\%$	$\approx 750$	TX22/14/6.4-3D3
3C90	$1400 \pm 20\%$	$\approx 2300$	TX22/14/6.4-3C90
3C81	$1650 \pm 20\%$	$\approx 2700$	TX22/14/6.4-3C81
3E27 <small>des</small>	$3055 \pm 20\%$	$\approx 5300$	TX22/14/6.4-3E27
3E6	$6000 \pm 30\%$	$\approx 10500$	TX22/14/6.4-3E6

Properties of cores under power conditions

GRADE	B (mT) at	CORE LOSS (W) at	
	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 25 kHz; B = 200 mT; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C
3C81	$\geq 320$	$\leq 0.21$	—
3C90	$\geq 320$	$\leq 0.13$	$\leq 0.13$

## Ferrite toroids

TX22/14/6.4




### 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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STATUS	INDICATION	DEFINITION
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