

DATA SHEET

TX40/24/16 Ferrite toroids

New data

2008 Sep 01

Ferrite toroids

TX40/24/16

RING CORES (TOROIDS)

Effective core parameters

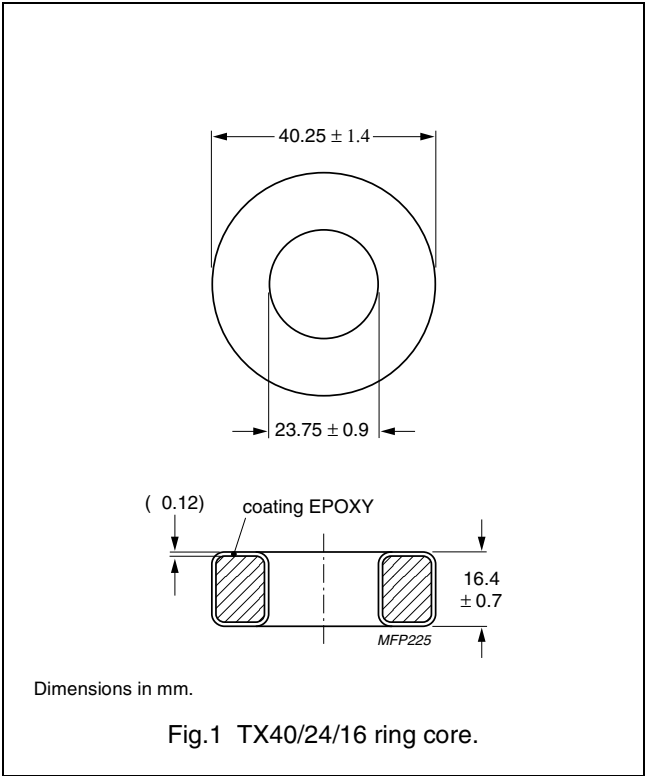
SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	0.769	mm^{-1}
V_e	effective volume	12100	mm^3
l_e	effective length	96.3	mm
A_e	effective area	125	mm^2
m	mass of core	≈ 62	g

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)	μ_i	TYPE NUMBER
3F3	$3000 \pm 25 \%$	≈ 1835	TX40/24/16-3F3
3C90	$3500 \pm 25 \%$	≈ 2140	TX40/24/16-3C90
3C11	$6800 \pm 25 \%$	≈ 4160	TX40/24/16-3C11
3E26	$10800 \pm 25 \%$	≈ 6610	TX40/24/16-3E26
3E27	$9363 \pm 25 \%$	≈ 5730	TX40/24/16-3E27
3E5	$12900 \pm 30 \%$	≈ 7890	TX40/24/16-3E5

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	f = 400 kHz; B = 50 mT; T = 100 °C
3C90	≥ 320	≤ 1.4	≤ 1.4	—
3F3	≥ 320	—	≤ 1.4	≤ 2.3

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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		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.
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