# DATA SHEET

# TX80/40/15 Ferrite toroids

Supersedes data of February 2002

2004 Sep 01



Ferrite toroids TX80/40/15

# **RING CORES (TOROIDS)**

#### **Effective core parameters**

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	0.604	mm <sup>-1</sup>
V <sub>e</sub>	effective volume	50200	mm <sup>3</sup>
l <sub>e</sub>	effective length	174	mm
A <sub>e</sub>	effective area	288	mm <sup>2</sup>
m	mass of core	≈ 240	g

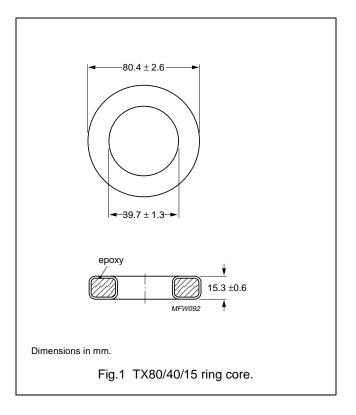
# Coating

The cores are coated with epoxy, flame retardant in accordance with "UL 94V-0"; UL file number E 228348. The colour is white.

#### 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 <sub>L</sub> (nH)	μί	TYPE NUMBER
3C90	$4780 \pm 25\%$	≈ <b>2300</b>	TX80/40/15-3C90

### Properties of cores under power conditions

	B (mT) at	CORE LOSS (W) at		
GRADE	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	
3C90	≥320	≤ 6.0	≤ 6.0	

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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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