

DATA SHEET

TX74/39/13
Ferrite toroids

Supersedes data of September 2004

2008 Sep 01

Ferrite toroids

TX74/39/13

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	0.80	mm ⁻¹
V_e	effective volume	34300	mm ³
l_e	effective length	165	mm
A_e	effective area	208	mm ²
m	mass of core	≈ 170	g

Coating

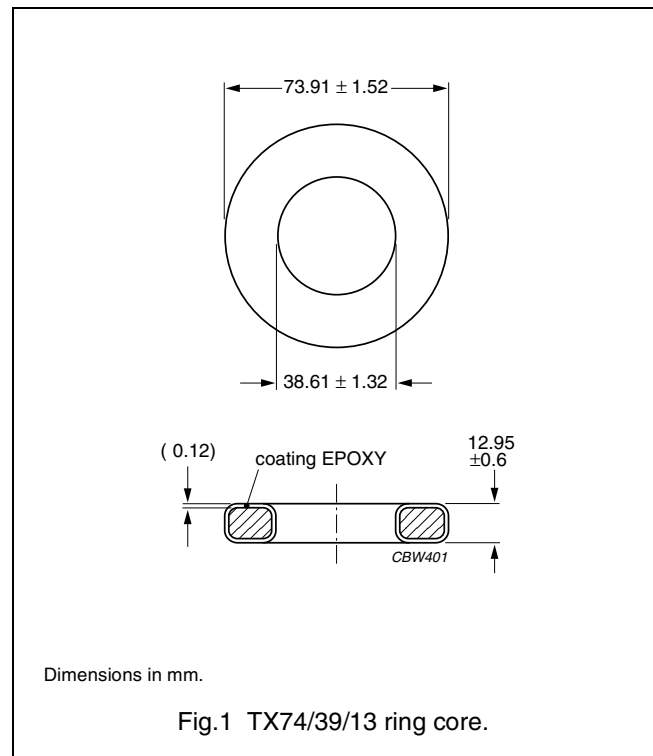
The cores are coated with epoxy, flame retardant in accordance with "UL 94V-0"; UL file number E 235873. The colour is white.

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	2900 ± 20%	≈ 1800	TX74/39/13-3F3
3C90 <small>des</small>	3620 ± 20%	≈ 2300	TX74/39/13-3C90
3C81	4350 ± 20%	≈ 2700	TX74/39/13-3C81
3E25	8060 ± 20%	≈ 5000	TX74/39/13-3E25
3E6 <small>des</small>	15776 ± 30%	≈ 10000	TX74/39/13-3E6

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	f = 400 kHz; B = 50 mT; T = 100 °C
3C81	≥320	≤ 7.0	–	–
3C90	≥320	≤ 4.0	≤ 4.0	–
3F3	≥320	–	≤ 3.8	≤ 8.1

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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