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DATA SHEET

TX42/26/13
Ferrite toroids

Supersedes data of September 2004

2008 Sep 01

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TX42/26/13

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	1.076	mm^{-1}
V_e	effective volume	9860	mm^3
l_e	effective length	103	mm
A_e	effective area	95.8	mm^2
m	mass of core	≈ 53	g

Coating

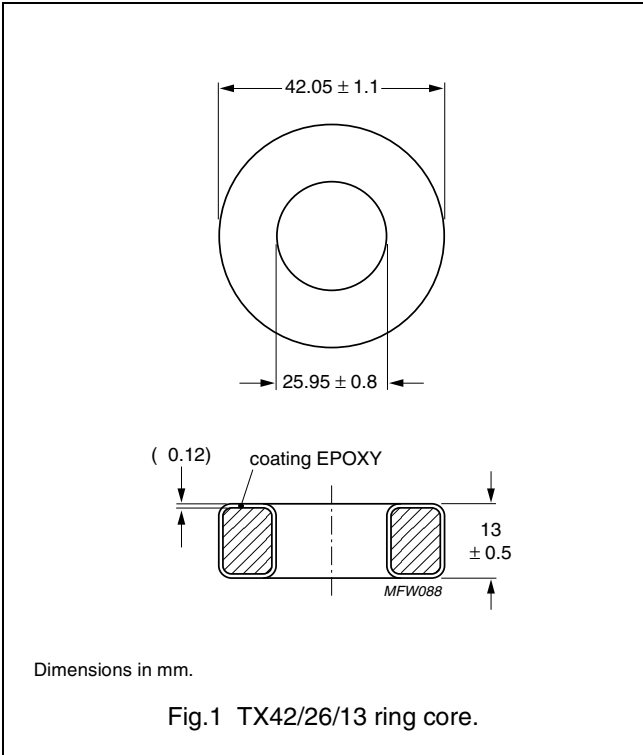
The cores are coated with epoxy, flame retardant in accordance with “UL 94V-0”; UL file number E 228348. The colour is white.

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
3C90	$2690 \pm 25\%$	≈ 2300	TX42/26/13-3C90
3C11	$5000 \pm 25\%$	≈ 4300	TX42/26/13-3C11
3E25	$6425 \pm 25\%$	≈ 5500	TX42/26/13-3E25
3E27	$6425 \pm 25\%$	≈ 5500	TX42/26/13-3E27
4A11	$820 \pm 25\%$	$\approx 700^{(1)}$	TX42/26/13-4A11

1. Old permeability specification maintained.

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
3C90	≥ 320	≤ 1.1	≤ 1.1

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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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Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support		These products are not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.