FERROXCUBE

DATA SHEET

TX58/41/18 Ferrite toroids

Supersedes data of September 2004

2008 Sep 01



Ferrite toroids TX58/41/18

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	1.0	mm ⁻¹
V _e	effective volume	23200	mm ³
l _e	effective length	152	mm
A _e	effective area	152	mm ²
m	mass of core	≈ 110	g

Coating

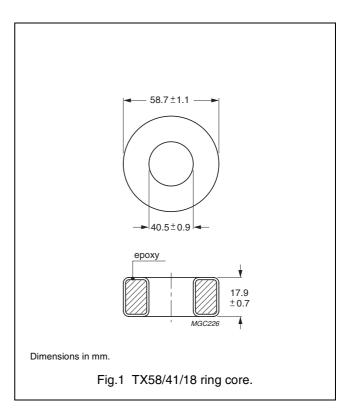
The cores are coated with epoxy, flame retardant in accordance with "*UL 94V-0*"; UL file number E 235873. The colour is white.

Maximum operating temperature is 200 $^{\circ}$ 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)	μί	TYPE NUMBER
3C90 des	$2890 \pm 25\%$	≈ 2300	TX58/41/18-3C90
3C11	5400 ± 25%	≈ 4300	TX58/41/18-3C11
3E25	6900 ± 25%	≈ 5500	TX58/41/18-3E25

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	≤ 2.6	≤2.6

2008 Sep 01 1753

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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.	
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2008 Sep 01 1754

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