DATA SHEET

TX58/41/18
Ferrite toroids

Supersedes data of September 2004   2008 Sep 01

FERROXCUBE

A YAGEO COMPANY

Ferrite toroids

TX58/41/18

RING CORES (TOROIDS)

Effective core parameters

| SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	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 °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.

58.7 ±1.1

40.5 ±0.9

epoxy

17.9 ±0.7

MGC226

Dimensions in mm.

Fig.1 TX58/41/18 ring core.
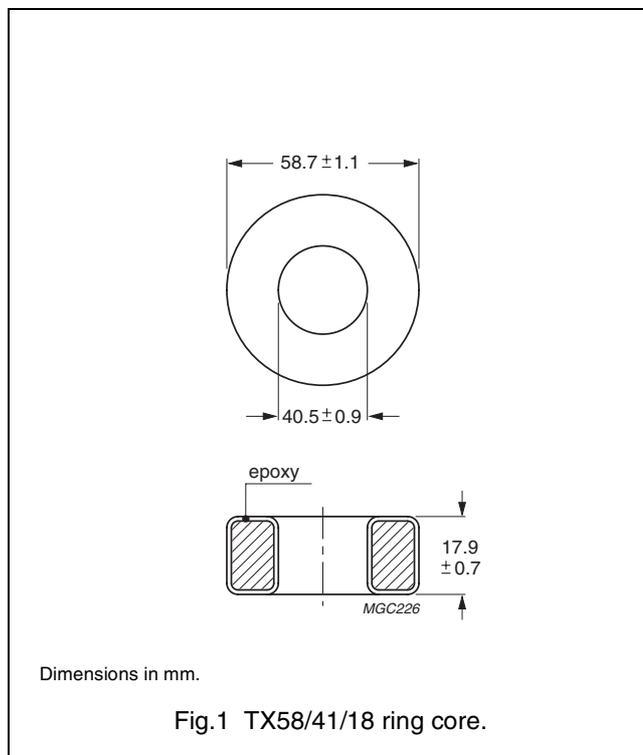
Ring core data

GRADE	A_L (nH)	μ_i	TYPE NUMBER
3C90 des	$2890 \pm 25\%$	≈ 2300	TX58/41/18-3C90
3C11	$5400 \pm 25\%$	≈ 4300	TX58/41/18-3C11
3E25	$6900 \pm 25\%$	≈ 5500	TX58/41/18-3E25

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	≤ 2.6	≤ 2.6

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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
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