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DATA SHEET

TX63/38/25
Ferrite toroids

Supersedes data of September 2004

2008 Sep 01

FERROXCUBE
A YAGEO COMPANY

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RING CORES (TOROIDS)

Effective core parameters

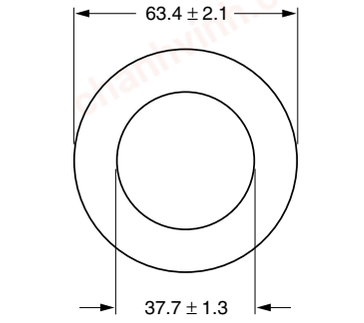
SYMBOL	PARAMETER	VALUE	UNIT
Σ(l/A)	core factor (C1)	0.497	mm^{-1}
V_e	effective volume	46500	mm^3
l_e	effective length	152	mm
A_e	effective area	306	mm^2
m	mass of core	≈ 220	g

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.



Dimensions (uncoated) in mm.

Fig.1 TX63/38/25 ring core.

Ring core data

GRADE	A_L (nH)	μ_i	TYPE NUMBER
3F3	4550 ± 25 %	≈ 1800	TX63/38/25-3F3
3E25	13900 ± 25 %	≈ 5500	TX63/38/25-3E25
3E6 des	25280 ± 30 %	≈ 10000	TX63/38/25-3E6

Properties of cores under power conditions

GRADE	B (mT) at	CORE LOSS (W) at	
	H = 250 A/m; f = 25 kHz; T = 100 °C	$\hat{f}$ = 100 kHz; $\hat{B}$ = 100 mT; T = 100 °C	$\hat{f}$ = 400 kHz; $\hat{B}$ = 50 mT; T = 100 °C
3F3	≥320	≤ 5.1	≤ 8.8

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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.

DISCLAIMER

Life support applications — These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Ferroxcube customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ferroxcube for any damages resulting from such application.

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 **not** recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.