

DATA SHEET

TX3.6/1.8/1.5
Alloy powder toroids

New data

2008 Sep 01

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RING CORES (TOROIDS)

Effective core parameters

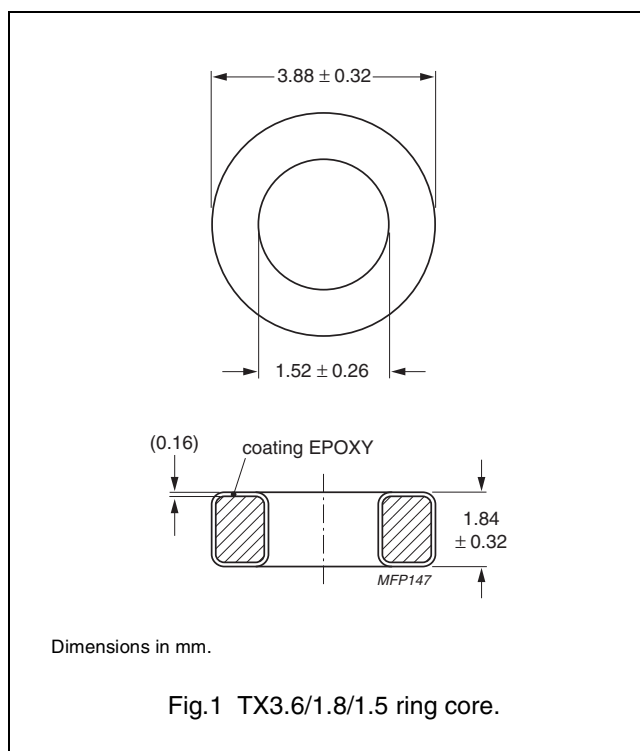
SYMBOL	PARAMETER		VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)		5.96	mm ⁻¹
V_e	effective volume		11.2	mm ³
l_e	effective length		8.17	mm
A_e	effective area		1.37	mm ²
m	mass of core (for μ_i 125)	MPP	0.09	g
		Sendust	0.07	g

Coating

The cores are coated with epoxy. The colour is cream (Sendust), grey (MPP) or khaki (High-Flux). Maximum operating temperature is 200 °C. Parylene coating is also available (transparent, maximum operating temperature 130 °C).

Isolation voltage

AC isolation voltage : 1000 V (Parylene : 750 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	B (mT) at H = 100 kA/m; f = 10 kHz; T = 25 °C	CORE LOSS (W) at f = 100 kHz; B = 100 mT; T = 25 °C	TYPE NUMBER
MPP	26 ± 8 %	125	≥ 800	0.008	TX3.6/1.5-M2-A26
	31 ± 8 %	147	≥ 800	0.009	TX3.6/1.5-M2-A31
	33 ± 8 %	160	≥ 800	0.009	TX3.6/1.5-M2-A33
	36 ± 8 %	173	≥ 800	0.009	TX3.6/1.5-M2-A36
	42 ± 8 %	200	≥ 800	0.017	TX3.6/1.5-M2-A42
	62 ± 8 %	300	≥ 800	0.017	TX3.6/1.5-M2-A62
Sendust	13 ± 15 %	60	≥ 1030	0.010	TX3.6/1.5-S7-A13
	16 ± 15 %	75	≥ 1040	0.010	TX3.6/1.5-S7-A16
	19 ± 15 %	90	≥ 1050	0.010	TX3.6/1.5-S7-A19
	26 ± 15 %	125	≥ 1060	0.010	TX3.6/1.5-S7-A26

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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.
Design-in		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		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.