

DATA SHEET

TX16/10/6.4 Alloy powder toroids

New data

2008 Sep 01



FERROXCUBE
A YAGEO COMPANY

Alloy powder toroids

TX16/10/6.4

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAMETER		VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)		2.14	mm^{-1}
V_e	effective volume		789	mm^3
l_e	effective length		41.1	mm
A_e	effective area		19.2	mm^2
m	mass of core (for μ_i 125)	MPP	6.78	g
		Sendust	4.98	g
		High-Flux	6.34	g

Coating

The cores are coated with epoxy. The colour is black (Sendust), grey (MPP) or khaki (High-Flux).

Maximum operating temperature is 200 °C.

Isolation voltage

AC isolation voltage : 1000 V.

Contacts are applied on the edge of the ring core, which is also the critical point for the winding operation.

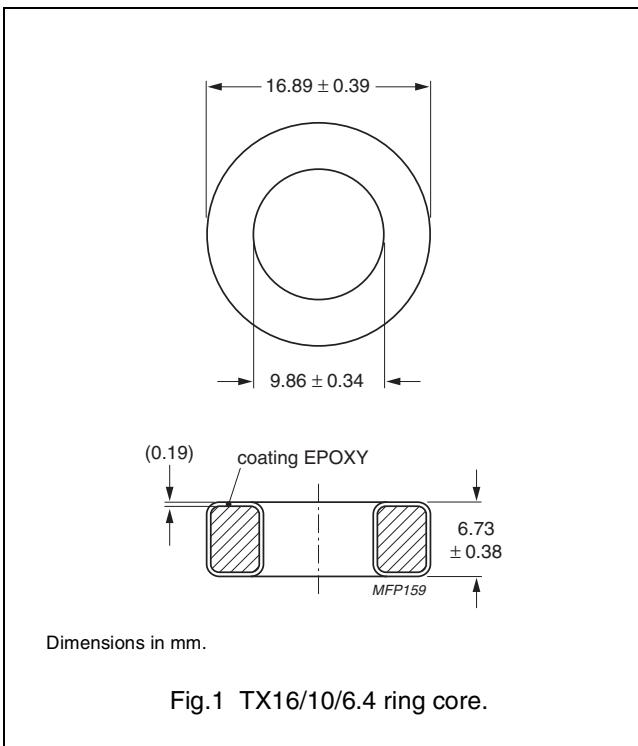


Fig.1 TX16/10/6.4 ring core.

Ring core data - Note 1. Mechanical dimensions : OD \leq 17.4, ID \geq 9.53, H \leq 7.11

GRADE	A_L (nH)	μ_i	B (mT) at	CORE LOSS (W) at	TYPE NUMBER
			$H = 100 \text{ kA/m};$ $f = 10 \text{ kHz}; T = 25^\circ\text{C}$	$f = 100 \text{ kHz};$ $\hat{B} = 100 \text{ mT}; T = 25^\circ\text{C}$	
MPP	8 ± 8 %	14	≥ 640	1.18	TX16/6.4-M2-A8
	15 ± 8 %	26	≥ 700	0.947	TX16/6.4-M2-A15
	35 ± 8 %	60	≥ 760	0.592	TX16/6.4-M2-A35
	72 ± 8 %	125	≥ 800	0.592	TX16/6.4-M2-A72
	88 ± 8 %	147	≥ 800	0.631	TX16/6.4-M2-A88
	92 ± 8 %	160	≥ 800	0.631	TX16/6.4-M2-A92
	104 ± 8 %	173	≥ 800	0.631	TX16/6.4-M2-A104
	115 ± 8 %	200	≥ 800	1.18	TX16/6.4-M2-A115
	173 ± 8 %	300	≥ 800	1.18	TX16/6.4-M2-A173
Sendust ⁽¹⁾	35 ± 8 %	60	≥ 1030	0.675	TX16/6.4-S7-A35-MC
	43 ± 8 %	75	≥ 1040	0.675	TX16/6.4-S7-A43-MC
	52 ± 8 %	90	≥ 1050	0.675	TX16/6.4-S7-A52-MC
	72 ± 8 %	125	≥ 1060	0.675	TX16/6.4-S7-A72-MC
High-Flux	8 ± 8 %	14	≥ 890	1.97	TX16/6.4-H2-A8
	15 ± 8 %	26	≥ 980	1.58	TX16/6.4-H2-A15
	35 ± 8 %	60	≥ 1280	1.42	TX16/6.4-H2-A35
	72 ± 8 %	125	≥ 1370	1.58	TX16/6.4-H2-A72
	88 ± 8 %	147	≥ 1385	1.74	TX16/6.4-H2-A88
	92 ± 8 %	160	≥ 1400	2.76	TX16/6.4-H2-A92

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TX16/10/6.4

DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Ferrox cube 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. Ferrox cube 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.
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.

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