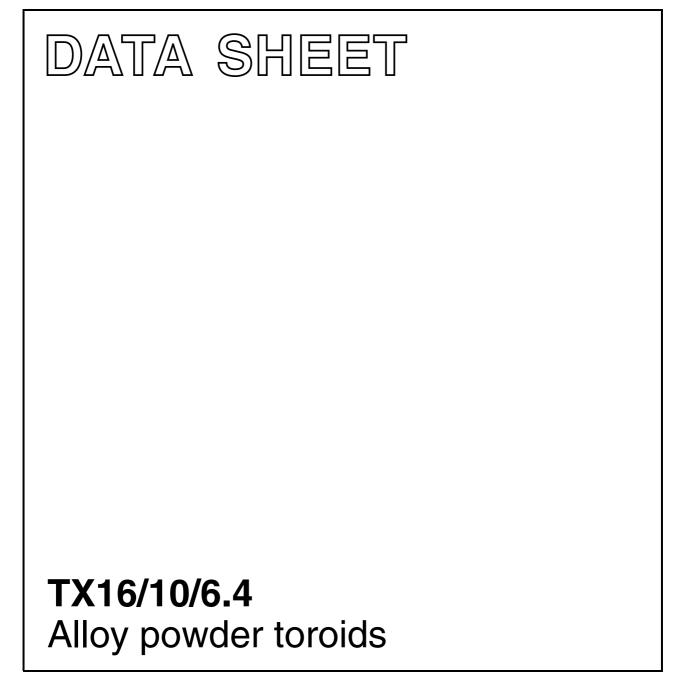
FERROXCUBE



New data

2008 Sep 01



Alloy powder toroids

TX16/10/6.4

RING CORES (TOROIDS)

Effective core parameters

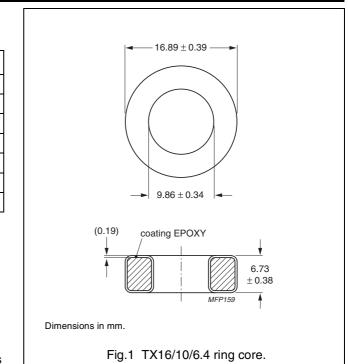
SYMBOL	PARAME	VALUE	UNIT	
Σ(I/A)	core factor (C1)		2.14	mm ⁻¹
Ve	effective volume		789	mm ³
l _e	effective length	41.1	mm	
A _e	effective area		19.2	mm ²
m	mass of core	MPP	6.78	g
	(for μ _i 125)	Sendust	4.98	g
			6.34	g

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.



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

GRADE	A _L (nH)	μι	B (mT) at	CORE LOSS (W) at	
			H = 100 kA/m; f = 10 kHz; T = 25 °C	f = 100 kHz; B = 100 mT; T = 25 ℃	TYPE NUMBER
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
F	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
ŀ	92±8%	160	≥ 1400	2.76	TX16/6.4-H2-A92

Alloy powder toroids

DATA SHEET STATUS DEFINITIONS

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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

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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.	