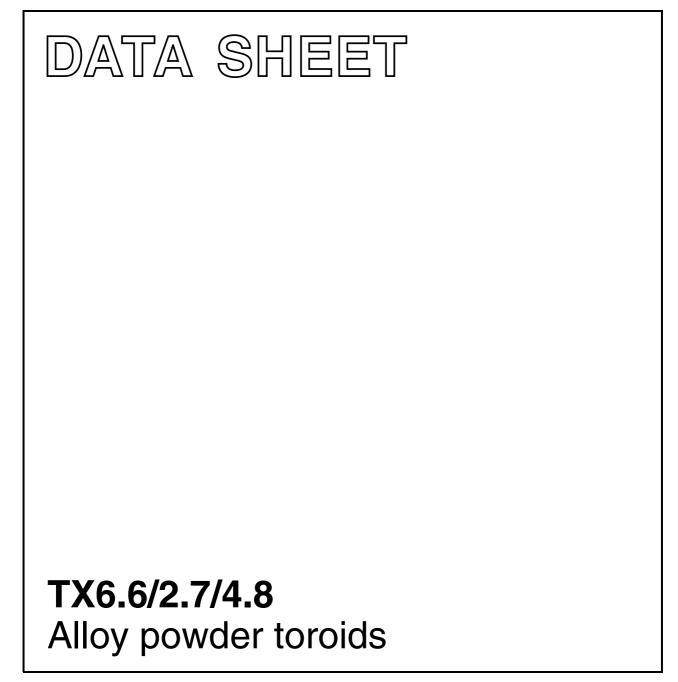
# FERROXCUBE



New data

2008 Sep 01



# Alloy powder toroids

## **RING CORES (TOROIDS)**

### Effective core parameters

SYMBOL	PARAME	VALUE	UNIT	
Σ(I/A)	core factor (C1)	1.48	mm <sup>-1</sup>	
Ve	effective volume	125	mm <sup>3</sup>	
l <sub>e</sub>	effective length	13.6	mm	
A <sub>e</sub>	effective area		9.2	mm <sup>2</sup>
m	mass of core	MPP	1.09	g
	(for µ <sub>i</sub> 125)	Sendust	0.77	g
		High-Flux	1.03	g

### Coating

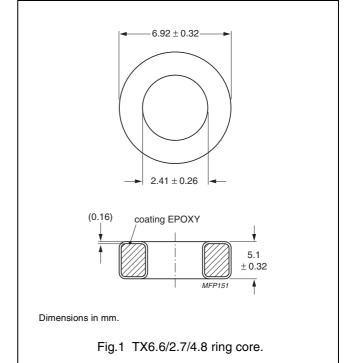
The cores are coated with epoxy. The colour is cream (Sendust), grey (MPP) or khaki (High-Flux). Maximum operating temperature is 200 °C. Parylene coating is also available (transparent, maximum operating temperature 130 °C).

#### **Isolation voltage**

AC isolation voltage : 1000 V (Parvlene : 750 V)

GRADE	A <sub>L</sub> (nH)	μ	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 °C	TYPE NUMBER
MPP	14 ± 8 %	14	≥ 640	0.188	TX6.6/4.8-M2-A14
-	21 ± 8 %	26	≥ 700	0.150	TX6.6/4.8-M2-A21
	50 ± 8 %	60	≥ 760	0.094	TX6.6/4.8-M2-A50
	103 ± 8 %	125	≥ 800	0.094	TX6.6/4.8-M2-A103
	122 ± 8 %	147	≥ 800	0.100	TX6.6/4.8-M2-A122
-	132 ± 8 %	160	≥ 800	0.100	TX6.6/4.8-M2-A132
	144 ± 8 %	173	≥ 800	0.100	TX6.6/4.8-M2-A144
	165 ± 8 %	200	≥ 800	0.188	TX6.6/4.8-M2-A16
	247 ± 8 %	300	≥ 800	0.188	TX6.6/4.8-M2-A24
Sendust	50 ± 12 %	60	≥ 1030	0.107	TX6.6/4.8-S7-A50
	62 ± 12 %	75	≥ 1040	0.107	TX6.6/4.8-S7-A62
	74 ± 12 %	90	≥ 1050	0.107	TX6.6/4.8-S7-A74
	103 ± 12 %	125	≥ 1060	0.107	TX6.6/4.8-S7-A103
High-Flux	12±8%	14	≥ 890	0.314	TX6.6/4.8-H2-A12
	21 ± 8 %	26	≥ 980	0.251	TX6.6/4.8-H2-A21
-	50 ± 8 %	60	≥ 1280	0.226	TX6.6/4.8-H2-A50
	103 ± 8 %	125	≥ 1370	0.251	TX6.6/4.8-H2-A103
	122 ± 8 %	147	≥ 1385	0.276	TX6.6/4.8-H2-A122
	132 ± 8 %	160	≥ 1400	0.439	TX6.6/4.8-H2-A132

# TX6.6/2.7/4.8



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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.

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