

# DATA SHEET

**TX11/6.4/4**  
Alloy powder toroids

New data

2008 Sep 01

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TX11/6.4/4

## RING CORES (TOROIDS)

### Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)	2.97	mm <sup>-1</sup>
$V_e$	effective volume	244	mm <sup>3</sup>
$l_e$	effective length	26.9	mm
$A_e$	effective area	9.06	mm <sup>2</sup>
m	mass of core (for $\mu_i$ 125)	MPP	2.12 g
		Sendust	1.50 g
		High-Flux	1.99 g

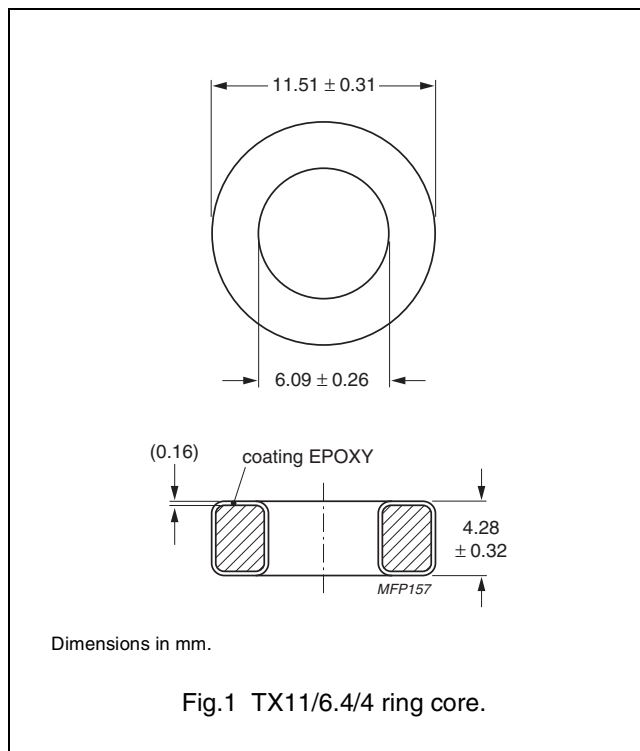
### Coating

The cores are coated with epoxy. The colour is black (Sendust), grey (MPP) or khaki (High-Flux). Maximum operating temperature is 200 °C. 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 - Note 1.** Mechanical dimensions : OD ≤ 11.89, ID ≥ 5.89, H ≤ 4.72



GRADE	$A_L$ (nH)	$\mu_i$	B (mT) at	CORE LOSS (W) at	TYPE NUMBER
			H = 100 kA/m; f = 10 kHz; T = 25 °C	f = 100 kHz; $\hat{B}$ = 100 mT; T = 25 °C	
MPP	6 ± 8 %	14	≥ 640	0.366	TX11/4-M2-A6
	11 ± 8 %	26	≥ 700	0.292	TX11/4-M2-A11
	26 ± 8 %	60	≥ 760	0.183	TX11/4-M2-A26
	53 ± 8 %	125	≥ 800	0.183	TX11/4-M2-A53
	63 ± 8 %	147	≥ 800	0.195	TX11/4-M2-A63
	68 ± 8 %	160	≥ 800	0.195	TX11/4-M2-A68
	74 ± 8 %	173	≥ 800	0.195	TX11/4-M2-A74
	85 ± 8 %	200	≥ 800	0.366	TX11/4-M2-A85
	127 ± 8 %	300	≥ 800	0.366	TX11/4-M2-A127
Sendust <sup>(1)</sup>	26 ± 12 %	60	≥ 1030	0.208	TX11/4-S7-A26-MC
	32 ± 12 %	75	≥ 1040	0.208	TX11/4-S7-A32-MC
	38 ± 12 %	90	≥ 1050	0.208	TX11/4-S7-A38-MC
	53 ± 12 %	125	≥ 1060	0.208	TX11/4-S7-A53-MC
High-Flux	6 ± 8 %	14	≥ 890	0.609	TX11/4-H2-A6
	11 ± 8 %	26	≥ 980	0.487	TX11/4-H2-A11
	26 ± 8 %	60	≥ 1280	0.439	TX11/4-H2-A26
	53 ± 8 %	125	≥ 1370	0.487	TX11/4-H2-A53
	63 ± 8 %	147	≥ 1385	0.536	TX11/4-H2-A63
	68 ± 8 %	160	≥ 1400	0.853	TX11/4-H2-A68




**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**

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