FERROXCUBE

DATA SHEET

TX36/22/11 Alloy powder toroids

New data 2008 Sep 01



Alloy powder toroids

TX36/22/11

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAME	VALUE	UNIT	
$\Sigma(I/A)$	core factor (C1)	1.32	mm ⁻¹	
V _e	effective volume	6090	mm ³	
l _e	effective length	89.8	mm	
A _e	effective area	67.8	mm ²	
m	mass of core	MPP	51.8	g
	(for μ _i 125)	Sendust	37.4	g
		High-Flux	48.9	g

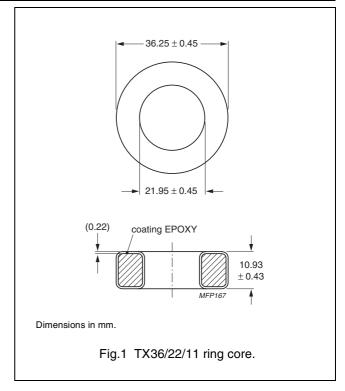
Coating

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 36.63, ID \geq 21.54, H \leq 11.28

	A _L (nH)	$\mu_{\mathbf{i}}$	B (mT) at	CORE LOSS (W) at	
GRADE			H = 100 kA/m; f = 10 kHz; T = 25 °C	f = 100 kHz; B = 100 mT; T = 25 °C	TYPE NUMBER
MPP	13 ± 8 %	14	≥ 640	9.13	TX36/11-M2-A13
-	24 ± 8 %	26	≥ 700	7.31	TX36/11-M2-A24
-	56 ± 8 %	60	≥ 760	4.57	TX36/11-M2-A56
	117 ± 8 %	125	≥ 800	4.57	TX36/11-M2-A117
-	138 ± 8 %	147	≥ 800	4.87	TX36/11-M2-A138
-	150 ± 8 %	160	≥ 800	4.87	TX36/11-M2-A150
-	162 ± 8 %	173	≥ 800	4.87	TX36/11-M2-A162
-	187 ± 8 %	200	≥ 800	9.13	TX36/11-M2-A187
-	281 ± 8 %	300	≥ 800	9.13	TX36/11-M2-A281
Sendust (1)	$24\pm8~\%$	26	≥ 1000	9.74	TX36/11-S7-A24-MC
-	56 ± 8 %	60	≥ 1030	5.21	TX36/11-S7-A56-MC
	70 ± 8 %	75	≥ 1040	5.21	TX36/11-S7-A70-MC
	84 ± 8 %	90	≥ 1050	5.21	TX36/11-S7-A84-MC
-	117 ± 8 %	125	≥ 1060	5.21	TX36/11-S7-A117-MC
High-Flux	13 ± 8 %	14	≥ 890	15.2	TX36/11-H2-A13
	24 ± 8 %	26	≥ 980	12.2	TX36/11-H2-A24
	56 ± 8 %	60	≥ 1280	11.0	TX36/11-H2-A56
Ī	117 ± 8 %	125	≥ 1370	12.2	TX36/11-H2-A117
	138 ± 8 %	147	≥ 1385	13.4	TX36/11-H2-A138
 	150 ± 8 %	160	≥ 1400	21.3	TX36/11-H2-A150

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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 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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