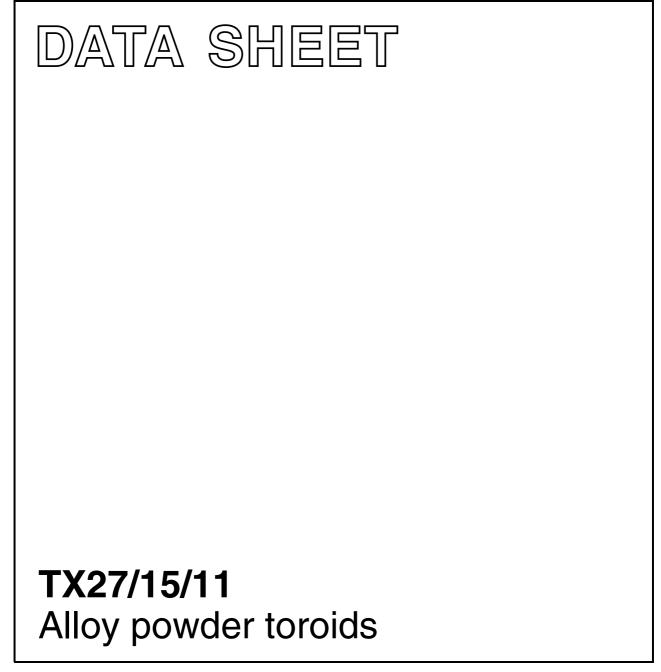
FERROXCUBE



New data

2008 Sep 01



Alloy powder toroids

TX27/15/11

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAME	VALUE	UNIT	
Σ(I/A)	core factor (C1)		0.971	mm ⁻¹
Ve	effective volume		4150	mm ³
l _e	effective length	63.5	mm	
A _e	effective area		65.4	mm ²
m	mass of core	MPP	35.8	g
	(for µ _i 125)	Sendust	25.5	g
		High-Flux	33.8	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.

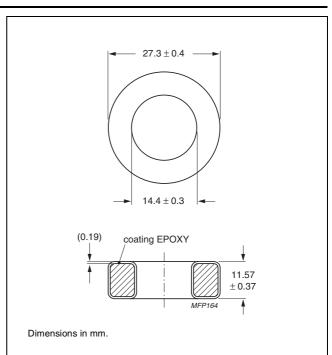


Fig.1 TX27/15/11 ring core.

Ring core data - Note 1. Mechanical dimensions : OD \leq 27.7, ID \geq 14.1, H \leq 11.99

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 °C	TYPE NUMBER
MPP	18±8 %	14	≥ 640	6.23	TX27/11-M2-A18
	32±8 %	26	≥ 700	4.98	TX27/11-M2-A32
	75 ± 8 %	60	≥ 760	3.11	TX27/11-M2-A75
	157±8%	125	≥ 800	3.11	TX27/11-M2-A157
	185±8 %	147	≥ 800	3.32	TX27/11-M2-A185
	201 ± 8 %	160	≥ 800	3.32	TX27/11-M2-A201
	217 ± 8 %	173	≥ 800	3.32	TX27/11-M2-A217
	251 ± 8 %	200	≥ 800	6.22	TX27/11-M2-A251
	377 ± 8 %	300	≥ 800	6.22	TX27/11-M2-A377
Sendust ⁽¹⁾	32 ± 8 %	26	≥ 1000	6.64	TX27/11-S7-A32-MC
	75 ± 8 %	60	≥ 1030	3.55	TX27/11-S7-A75-MC
	94 ± 8 %	75	≥ 1040	3.55	TX27/11-S7-A94-MC
	113±8%	90	≥ 1050	3.55	TX27/11-S7-A113-MC
	157±8%	125	≥ 1060	3.55	TX27/11-S7-A157-MC
High-Flux - -	18±8 %	14	≥ 890	10.4	TX27/11-H2-A18
	32 ± 8 %	26	≥ 980	8.30	TX27/11-H2-A32
	75 ± 8 %	60	≥ 1280	7.47	TX27/11-H2-A75
	157±8%	125	≥ 1370	8.30	TX27/11-H2-A157
	185±8 %	147	≥ 1385	9.13	TX27/11-H2-A185
	201 ± 8 %	160	≥ 1400	14.5	TX27/11-H2-A201

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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.

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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.	