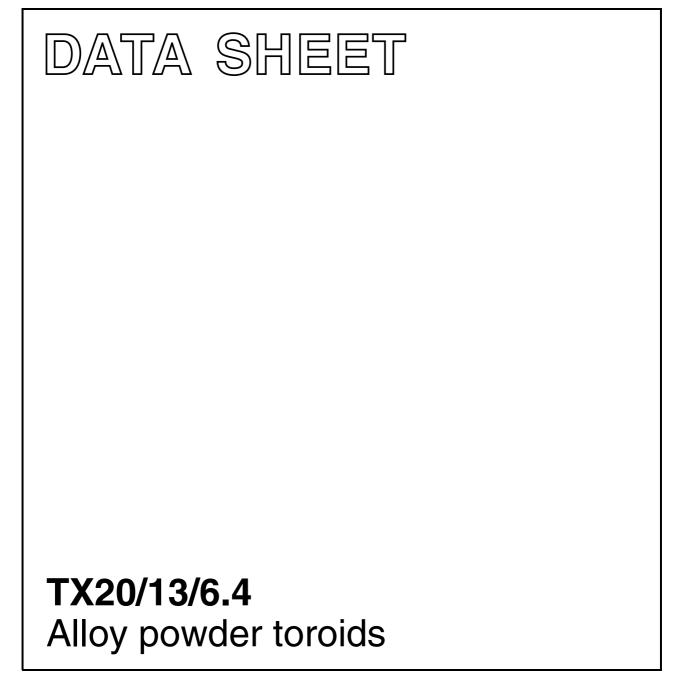
FERROXCUBE



New data

2008 Sep 01



Alloy powder toroids

TX20/13/6.4

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAME	VALUE	UNIT	
Σ(I/A)	core factor (C1)	2.25	mm ⁻¹	
Ve	effective volume		1150	mm ³
l _e	effective length	50.9	mm	
A _e	effective area		22.6	mm ²
m mass of core (for μ _i 125)	mass of core	MPP	9.40	g
	(for μ _i 125)	Sendust	7.10	g
		High-Flux	8.90	g

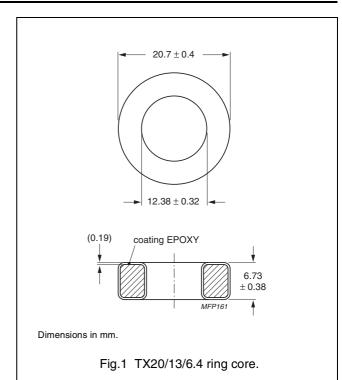
Coating

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 21.1, ID \geq 12.07, H \leq 7.11

GRADE	A _L (nH)	μi	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	7.8±8%	14	≥ 640	1.73	TX20/6.4-M2-A7.8
	14±8%	26	≥ 700	1.38	TX20/6.4-M2-A14
	32±8 %	60	≥ 760	0.863	TX20/6.4-M2-A32
	68±8%	125	≥ 800	0.863	TX20/6.4-M2-A68
	81 ± 8 %	147	≥ 800	0.920	TX20/6.4-M2-A81
	87 ± 8 %	160	≥ 800	0.920	TX20/6.4-M2-A87
	109 ± 8 %	200	≥ 800	1.73	TX20/6.4-M2-A109
	163 ± 8 %	300	≥ 800	1.73	TX20/6.4-M2-A163
Sendust ⁽¹⁾	32±8 %	60	≥ 1030	0.983	TX20/6.4-S7-A32-MC
	41 ± 8 %	75	≥ 1040	0.983	TX20/6.4-S7-A41-MC
	49±8%	90	≥ 1050	0.983	TX20/6.4-S7-A49-MC
	68±8%	125	≥ 1060	0.983	TX20/6.4-S7-A68-MC
High-Flux	7.8 ± 8 %	14	≥ 890	2.88	TX20/6.4-H2-A7.8
	14±8%	26	≥ 980	2.30	TX20/6.4-H2-A14
	32±8 %	60	≥ 1280	2.07	TX20/6.4-H2-A32
	68±8%	125	≥ 1370	2.30	TX20/6.4-H2-A68
	81 ± 8 %	147	≥ 1385	2.53	TX20/6.4-H2-A81
-	87 ± 8 %	160	≥ 1400	4.03	TX20/6.4-H2-A87

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

Life support applications — These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Ferroxcube customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ferroxcube for any damages resulting from such application.

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.	