

DATA SHEET

TX57/36/14
Alloy powder toroids

New data

2008 Sep 01

RING CORES (TOROIDS)

Effective core parameters

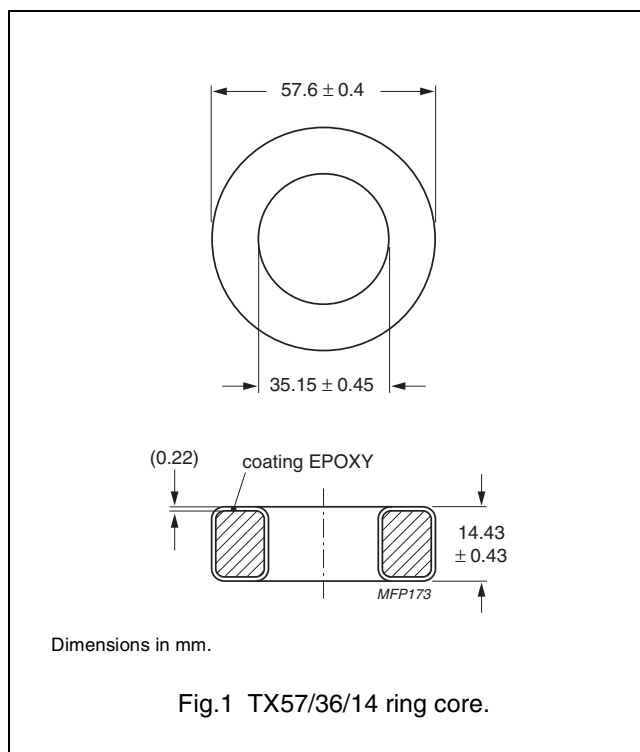
SYMBOL	PARAMETER	VALUE	UNIT	
$\Sigma(l/A)$	core factor (C1)	0.990	mm ⁻¹	
V_e	effective volume	20650	mm ³	
l_e	effective length	143	mm	
A_e	effective area	144	mm ²	
m	mass of core (for μ_i 125)	MPP	175	g
		Sendust	127	g
		High-Flux	165	g

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 ≤ 58, ID ≥ 34.7, H ≤ 14.86

GRADE	A_L (nH)	μ_i	B (mT) at	CORE LOSS (W) at	TYPE NUMBER
			H = 100 kA/m; f = 10 kHz; T = 25 °C	f = 100 kHz; B = 100 mT; T = 25 °C	
MPP	18 ± 8 %	14	≥ 640	31.0	TX57/14-M2-A18
	33 ± 8 %	26	≥ 700	24.8	TX57/14-M2-A33
	75 ± 8 %	60	≥ 760	15.5	TX57/14-M2-A75
	156 ± 8 %	125	≥ 800	15.5	TX57/14-M2-A156
	185 ± 8 %	147	≥ 800	16.5	TX57/14-M2-A185
	200 ± 8 %	160	≥ 800	16.5	TX57/14-M2-A200
	218 ± 8 %	173	≥ 800	16.5	TX57/14-M2-A218
	250 ± 8 %	200	≥ 800	31.0	TX57/14-M2-A250
	374 ± 8 %	300	≥ 800	31.0	TX57/14-M2-A374
Sendust ⁽¹⁾	33 ± 8 %	26	≥ 1000	33.0	TX57/14-S7-A33-MC
	75 ± 8 %	60	≥ 1030	17.7	TX57/14-S7-A75-MC
	94 ± 8 %	75	≥ 1040	17.7	TX57/14-S7-A94-MC
	112 ± 8 %	90	≥ 1050	17.7	TX57/14-S7-A112-MC
	156 ± 8 %	125	≥ 1060	17.7	TX57/14-S7-A156-MC
High-Flux	18 ± 8 %	14	≥ 890	51.6	TX57/14-H2-A18
	33 ± 8 %	26	≥ 980	41.3	TX57/14-H2-A33
	75 ± 8 %	60	≥ 1280	37.2	TX57/14-H2-A75
	156 ± 8 %	125	≥ 1370	41.3	TX57/14-H2-A156

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.

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		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		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		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.