

DATA SHEET

TX6.6/2.7/2.5
Alloy powder toroids

New data

2008 Sep 01

Alloy powder toroids

TX6.6/2.7/2.5

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)	2.86	mm ⁻¹
V_e	effective volume	64.9	mm ³
l_e	effective length	13.6	mm
A_e	effective area	4.76	mm ²
m	mass of core (for μ_i 125)	MPP	0.58 g
		Sendust	0.40 g
		High-Flux	0.55 g

Coating

The cores are coated with epoxy. The colour is cream (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.

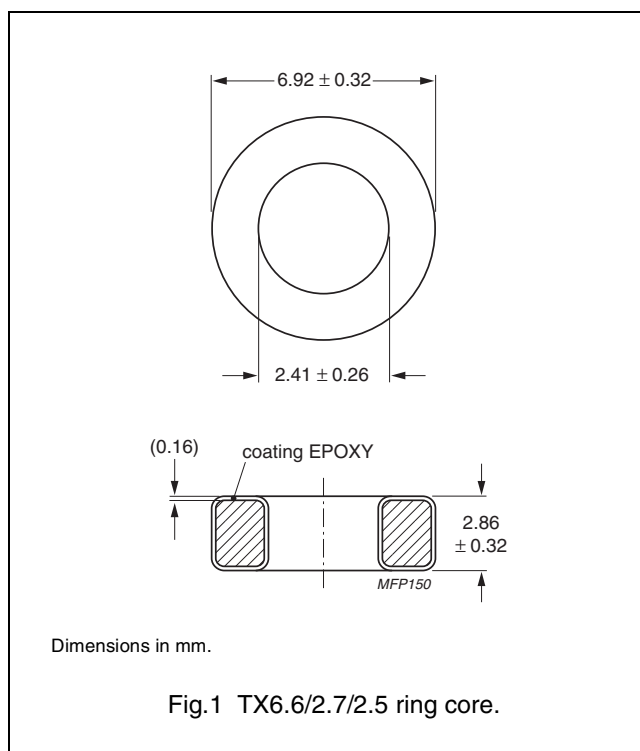


Fig.1 TX6.6/2.7/2.5 ring core.

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	$6 \pm 8 \%$	14	≥ 640	0.097	TX6.6/2.5-M2-A6
	$11 \pm 8 \%$	26	≥ 700	0.078	TX6.6/2.5-M2-A11
	$26 \pm 8 \%$	60	≥ 760	0.049	TX6.6/2.5-M2-A26
	$54 \pm 8 \%$	125	≥ 800	0.049	TX6.6/2.5-M2-A54
	$64 \pm 8 \%$	147	≥ 800	0.052	TX6.6/2.5-M2-A64
	$69 \pm 8 \%$	160	≥ 800	0.052	TX6.6/2.5-M2-A69
	$75 \pm 8 \%$	173	≥ 800	0.052	TX6.6/2.5-M2-A75
	$86 \pm 8 \%$	200	≥ 800	0.097	TX6.6/2.5-M2-A86
Sendust	$130 \pm 8 \%$	300	≥ 800	0.097	TX6.6/2.5-M2-A130
	$26 \pm 12 \%$	60	≥ 1030	0.055	TX6.6/2.5-S7-A26
	$32 \pm 12 \%$	75	≥ 1040	0.055	TX6.6/2.5-S7-A32
	$39 \pm 12 \%$	90	≥ 1050	0.055	TX6.6/2.5-S7-A39
High-Flux	$54 \pm 12 \%$	125	≥ 1060	0.055	TX6.6/2.5-S7-A54
	$6 \pm 8 \%$	14	≥ 890	0.162	TX6.6/2.5-H2-A6
	$11 \pm 8 \%$	26	≥ 980	0.130	TX6.6/2.5-H2-A11
	$26 \pm 8 \%$	60	≥ 1280	0.117	TX6.6/2.5-H2-A26
	$54 \pm 8 \%$	125	≥ 1370	0.130	TX6.6/2.5-H2-A54
	$64 \pm 8 \%$	147	≥ 1385	0.143	TX6.6/2.5-H2-A64
	$69 \pm 8 \%$	160	≥ 1400	0.227	TX6.6/2.5-H2-A69




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
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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.