

# DATA SHEET

**TX40/24/15**  
Alloy powder toroids

New data

2008 Sep 01

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TX40/24/15

## RING CORES (TOROIDS)

### Effective core parameters

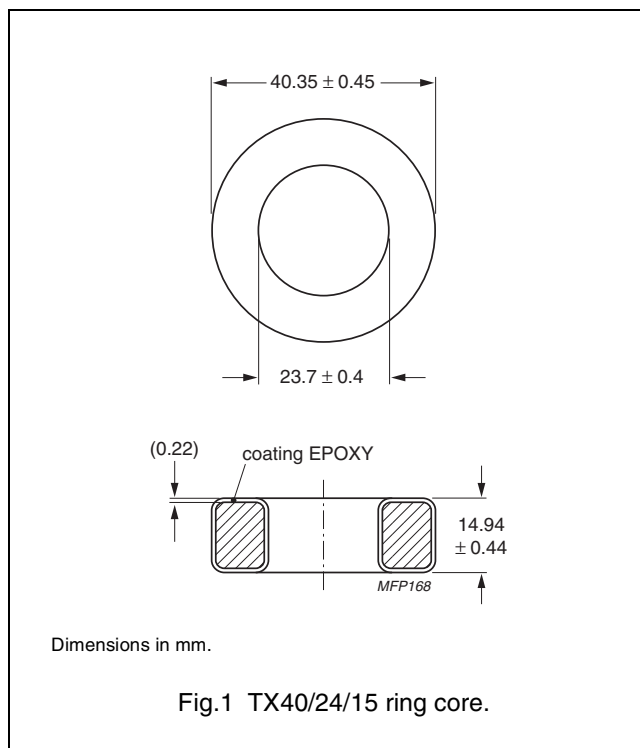
SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)	0.920	mm <sup>-1</sup>
$V_e$	effective volume	10500	mm <sup>3</sup>
$l_e$	effective length	98.4	mm
$A_e$	effective area	107	mm <sup>2</sup>
m	mass of core (for $\mu_i$ 125)	MPP	91.7 g
		Sendust	64.9 g
		High-Flux	86.5 g

### 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 ≤ 40.72, ID ≥ 23.3, H ≤ 15.37

GRADE	$A_L$ (nH)	$\mu_i$	B (mT) at	CORE LOSS (W) at	TYPE NUMBER
			H = 100 kA/m; f = 10 kHz; T = 25 °C	f = 100 kHz; $\hat{B} = 100$ mT; T = 25 °C	
MPP	19 ± 8 %	14	≥ 640	15.8	TX40/15-M2-A19
	35 ± 8 %	26	≥ 700	12.6	TX40/15-M2-A35
	81 ± 8 %	60	≥ 760	7.87	TX40/15-M2-A81
	168 ± 8 %	125	≥ 800	7.87	TX40/15-M2-A168
	198 ± 8 %	147	≥ 800	8.40	TX40/15-M2-A198
	215 ± 8 %	160	≥ 800	8.40	TX40/15-M2-A215
	233 ± 8 %	173	≥ 800	8.40	TX40/15-M2-A233
	269 ± 8 %	200	≥ 800	15.8	TX40/15-M2-A269
	403 ± 8 %	300	≥ 800	15.8	TX40/15-M2-A403
Sendust <sup>(1)</sup>	35 ± 8 %	26	≥ 1000	16.8	TX40/15-S7-A35-MC
	81 ± 8 %	60	≥ 1030	8.98	TX40/15-S7-A81-MC
	101 ± 8 %	75	≥ 1040	8.98	TX40/15-S7-A101-MC
	121 ± 8 %	90	≥ 1050	8.98	TX40/15-S7-A121-MC
	168 ± 8 %	125	≥ 1060	8.98	TX40/15-S7-A168-MC
High-Flux	19 ± 8 %	14	≥ 890	26.3	TX40/15-H2-A19
	35 ± 8 %	26	≥ 980	21.0	TX40/15-H2-A35
	81 ± 8 %	60	≥ 1280	18.9	TX40/15-H2-A81
	168 ± 8 %	125	≥ 1370	21.0	TX40/15-H2-A168
	198 ± 8 %	147	≥ 1385	23.1	TX40/15-H2-A198
	215 ± 8 %	160	≥ 1400	36.8	TX40/15-H2-A215

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DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
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