

# DATA SHEET

**TX27/15/11**  
Alloy powder toroids

New data

2008 Sep 01

# Alloy powder toroids

TX27/15/11

## RING CORES (TOROIDS)

### Effective core parameters

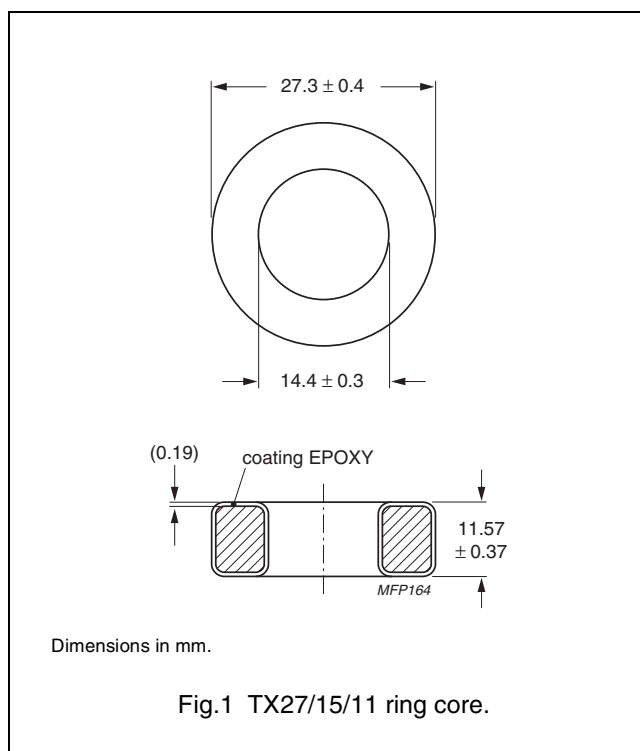
SYMBOL	PARAMETER	VALUE	UNIT	
$\Sigma(l/A)$	core factor (C1)	0.971	mm <sup>-1</sup>	
$V_e$	effective volume	4150	mm <sup>3</sup>	
$l_e$	effective length	63.5	mm	
$A_e$	effective area	65.4	mm <sup>2</sup>	
m	mass of core (for $\mu_i$ 125)	MPP	35.8	g
		Sendust	25.5	g
		High-Flux	33.8	g

### 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.



**Ring core data - Note 1.** Mechanical dimensions : OD ≤ 27.7, ID ≥ 14.1, H ≤ 11.99

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	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 <sup>(1)</sup>	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

**DATA SHEET STATUS DEFINITIONS**

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
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