

DATA SHEET

TN17/11/6.4 Gapped ferrite toroids

Supersedes data of February 2002

2004 Sep 01

Gapped ferrite toroids

TN17/11/6.4

RING CORES (TOROIDS)

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	2.24	mm ⁻¹
V_e	effective volume	787	mm ³
l_e	effective length	42.0	mm
A_e	effective area	18.7	mm ²
m	mass of core	≈ 3.7	g

Coating

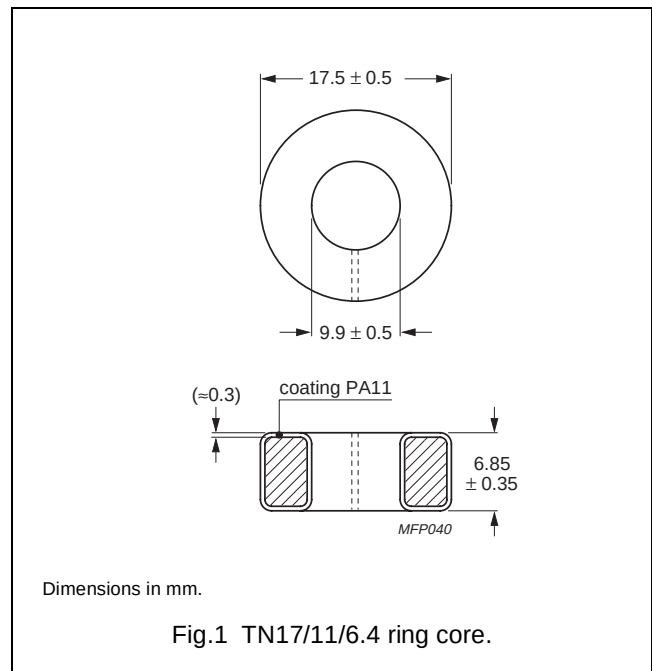
The cores are coated with polyamide 11 (PA11), flame retardant in accordance with "UL 94V-2"; UL file number E 45228 (M).

The colour is white.

Isolation voltage

DC isolation voltage: 1500 V.

Contacts are applied on the edge of the ring core, which is also the critical point for the winding operation.



Ring core data

GRADE	A_L (nH)	μ_i	TYPE NUMBER
3C20	52 ± 15%	≈ 90	TN17/6.4-3C20-A52
	72 ± 15%	≈ 125	TN17/6.4-3C20-A72
	88 ± 15%	≈ 147	TN17/6.4-3C20-A88
	92 ± 15%	≈ 160	TN17/6.4-3C20-A92
	104 ± 15%	≈ 173	TN17/6.4-3C20-A104

Properties of cores under power conditions

GRADE	B (mT) at	CORE LOSS (W) at	
	H = 1200 A/m; f = 10 kHz; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C	f = 100 kHz; B = 200 mT; T = 100 °C
3C20	~ 400	≤ 0.070	≤ 0.47

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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.

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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.