DATA SHEET

TN17/9.8/4.4
Iron powder toroids

Supersedes data of September 2004 2008 Sep 01

FERROXCUBE
A YAGEO COMPANY

Iron powder toroids TN17/9.8/4.4

RING CORES (TOROIDS)

Effective core parameters

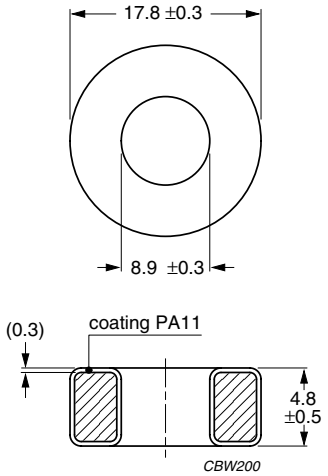
SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	2.55	mm^{-1}
V_e	effective volume	635	mm^3
l_e	effective length	40.2	mm
A_e	effective area	15.8	mm^2
m	mass of core	≈5	g

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.
Maximum operating temperature is 160 °C.

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.



Dimensions in mm.

Fig.1 TN17/9.8/4.4 ring core.

Ring core data

GRADE	A_L (nH)	μ_i	TYPE NUMBER
2P40 sup	20 ±10%	≈40	TN17/9.8/4.4-2P40
2P50 sup	25 ±10%	≈50	TN17/9.8/4.4-2P50
2P65 sup	32 ±10%	≈65	TN17/9.8/4.4-2P65
2P80 sup	40 ±10%	≈80	TN17/9.8/4.4-2P80
2P90 sup	42 +10/−15%	≈90	TN17/9.8/4.4-2P90

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

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PRODUCT STATUS DEFINITIONS

STATUS	INDICATION	DEFINITION
Prototype	prot	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	des	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	sup	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.