FERROXCUBE

DATA SHEET

PTS40/27/I PT, PTS, PTS/I cores and accessories

Supersedes data of September 2004

2008 Sep 01



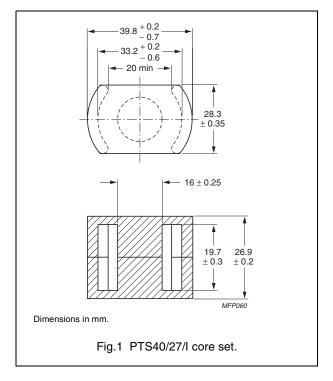
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CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	core factor (C1)	0.346	mm ⁻¹
V _e	effective volume	14400	mm ³
l _e	effective length	70.5	mm
A _e	effective area	204	mm ²
A _{min}	minimum area	201	mm ²
m	mass of set	≈ 66	g



Core sets for general purpose transformers and power applications

Clamping force for A_L measurements, $100 \pm 25 \text{ N}$.

GRADE	A _L (nH)	μ _e	AIR GAP (μm)	TYPE NUMBER
3C92 des	$4740\pm25~\%$	≈ 1300	≈ 0	PTS40/27/I-3C92
3C94	$6800\pm25~\%$	≈ 1870	≈ 0	PTS40/27/I-3C94
3C96 des	6060 ± 25 %	≈ 1670	≈ 0	PTS40/27/I-3C96

Properties of core sets under power conditions

	B (mT) at	CORE LOSS (W) at		
GRADE	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C	f = 100 kHz; B = 200 mT; T = 100 °C	f = 500 kHz; B = 50 mT; T = 100 °C
3C92	≥320	≤ 1.5	≤ 8.6	-
3C94	≥320	≤ 1.5	≤ 8.6	-
3C96	≥315	≤ 1.1	≤ 6.5	≤ 5.4

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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

Life support applications — These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Ferroxcube customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ferroxcube for any damages resulting from such application.

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.

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