

DATA SHEET

PTS34/19/I
PT, PTS, PTS/I cores and
accessories

Supersedes data of September 2004

2008 Sep 01

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	0.339	mm ⁻¹
V_e	effective volume	8140	mm ³
l_e	effective length	52.5	mm
A_e	effective area	155	mm ²
A_{min}	minimum area	145	mm ²
m	mass of set	≈ 46	g

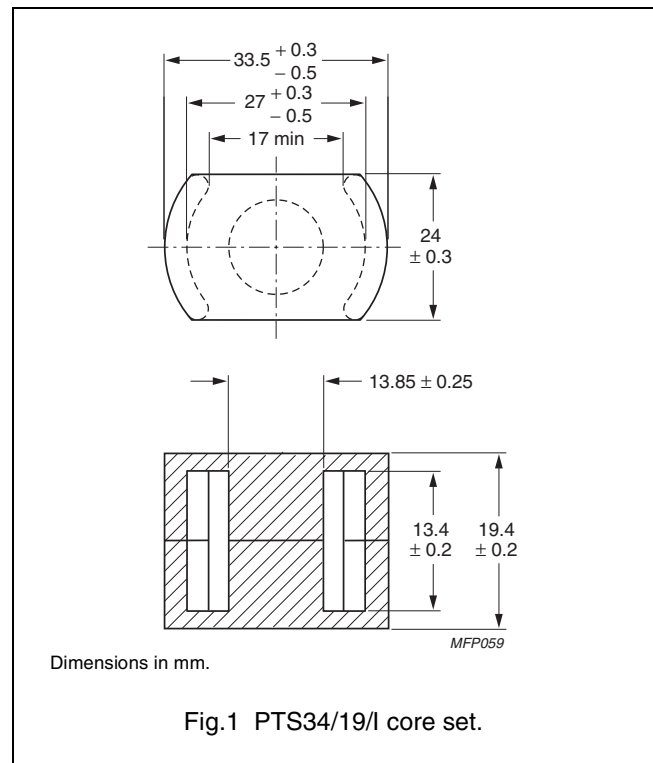


Fig.1 PTS34/19/I core set.

Core sets for general purpose transformers and power applications

Clamping force for A_L measurements, 80 ± 20 N.

GRADE	A_L (nH)	μ_e	AIR GAP (μ m)	TYPE NUMBER
3C92 <small>des</small>	$4770 \pm 25 \%$	≈ 1290	≈ 0	PTS34/19/I-3C92
3C94	$6800 \pm 25 \%$	≈ 1830	≈ 0	PTS34/19/I-3C94
3C96 <small>des</small>	$6070 \pm 25 \%$	≈ 1640	≈ 0	PTS34/19/I-3C96

Properties of core sets under power conditions

GRADE	B (mT) at	CORE LOSS (W) at		
	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 100 kHz; $\hat{B} = 100$ mT; T = 100 °C	f = 100 kHz; $\hat{B} = 200$ mT; T = 100 °C	f = 500 kHz; $\hat{B} = 50$ mT; T = 100 °C
3C92	≥320	≤ 0.8	≤ 4.9	–
3C94	≥320	≤ 0.8	≤ 4.9	–
3C96	≥315	≤ 0.6	≤ 3.7	≤ 3.0

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.

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PRODUCT STATUS DEFINITIONS

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