DATA SHEET

PTS14/8 (1408THS) PT, PTS, PTS/I cores and accessories

Supersedes data of February 2002

2004 Sep 01

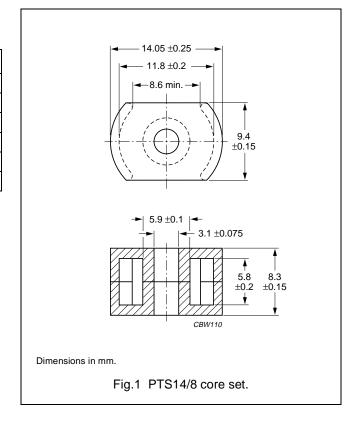


PT, PTS, PTS/I cores and accessories

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	1.02	mm ⁻¹
V _e	effective volume	495	mm ³
l _e	effective length	22.5	mm
A _e	effective area	22.0	mm ²
A _{min}	minimum area	19.9	mm ²
m	mass of set ≈ 2.5 g		g



Core sets for general purpose transformers and power applications

Clamping force for A_L measurements, 15 ±15 N.

GRADE	A _L (nH)	$\mu_{\mathbf{e}}$	AIR GAP (μm)	TYPE NUMBER
3C81	63 ±3%	≈ 51	≈ 590	PTS14/8-3C81-A63
	100 ±3%	≈ 81	≈ 340	PTS14/8-3C81-A100
	160 ±3%	≈ 130	≈ 190	PTS14/8-3C81-A160
	250 ±3%	≈ 204	≈ 110	PTS14/8-3C81-A250
	315 ±5%	≈ 257	≈ 90	PTS14/8-3C81-A315
	2330 ±25%	≈ 1900	≈ 0	PTS14/8-3C81
3C91 des	2330 ±25%	≈ 1900	≈ 0	PTS14/8-3C91
3F3	63 ±3%	≈ 51	≈ 590	PTS14/8-3F3-A63
	100 ±3%	≈ 81	≈ 340	PTS14/8-3F3-A100
	160 ±3%	≈ 130	≈ 190	PTS14/8-3F3-A160
	250 ±3%	≈ 204	≈ 110	PTS14/8-3F3-A250
	315 ±5%	≈ 257	≈ 90	PTS14/8-3F3-A315
	1625 ±25%	≈ 1320	≈ 0	PTS14/8-3F3

PT, PTS, PTS/I cores and accessories

PTS14/8 (1408THS)

Core sets of high permeability grades

Clamping force for A_L measurements, 15 ± 5 N.

GRADE	A _L (nH)	μ _e	AIR GAP (μm)	TYPE NUMBER
3E27	4370 ±25%	≈ 3540	≈ 0	PTS14/8-3E27

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 = 25 kHz; B = 200 mT; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C	f = 100 kHz; B = 200 mT; T = 100 °C	f = 400 kHz; B = 50 mT; T = 100 °C
3C81	≥320	≤ 0.1	_	_	_
3C91	≥320	_	≤ 0.026 ⁽¹⁾	≤ 0.19 ⁽¹⁾	-
3F3	≥315	_	≤ 0.054	_	≤ 0.94

Note

1. Measured at 60 °C.

BOBBINS AND ACCESSORIES

For coil formers, winding data and mounting parts, see data sheet, "P14/8" and "PT14/8".

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

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.
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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.