

DATA SHEET

P26/16/I

P cores and accessories

Supersedes data of February 2002

2004 Sep 01

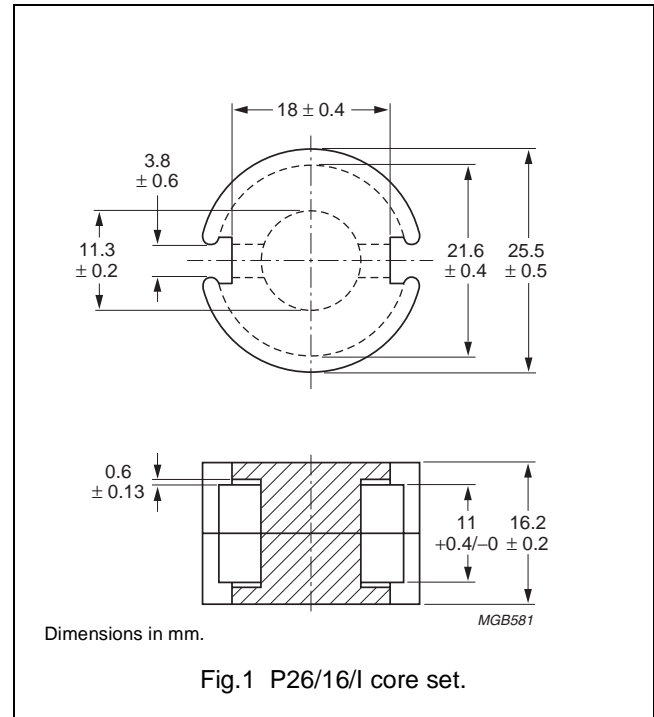
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CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	0.360	mm ⁻¹
V_e	effective volume	4370	mm ³
l_e	effective length	39.6	mm
A_e	effective area	110	mm ²
A_{min}	minimum area	87.0	mm ²
m	mass of set	≈ 21	g



Core sets for general purpose transformers and power applications

Clamping force for A_L measurements, 50 ± 20 N.

GRADE	A_L (nH)	μ_e	AIR GAP (μ m)	TYPE NUMBER
3C81	250 ± 3%	≈ 72	≈ 660	P26/16/I-3C81-E250
	315 ± 3%	≈ 90	≈ 500	P26/16/I-3C81-A315
	400 ± 3%	≈ 115	≈ 380	P26/16/I-3C81-A400
	630 ± 3%	≈ 180	≈ 230	P26/16/I-3C81-A630
	1000 ± 3%	≈ 286	≈ 130	P26/16/I-3C81-A1000
	7000 ± 25%	≈ 2010	≈ 0	P26/16/I-3C81
3C91 <small>des</small>	7000 ± 25%	≈ 2010	≈ 0	P26/16/I-3C91
3F3	250 ± 3%	≈ 72	≈ 660	P26/16/I-3F3-E250
	315 ± 3%	≈ 90	≈ 500	P26/16/I-3F3-A315
	400 ± 3%	≈ 115	≈ 380	P26/16/I-3F3-A400
	630 ± 3%	≈ 180	≈ 230	P26/16/I-3F3-A630
	1000 ± 3%	≈ 286	≈ 130	P26/16/I-3F3-A1000
	5250 ± 25%	≈ 1505	≈ 0	P26/16/I-3F3

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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 = 25 kHz; B̂ = 200 mT; T = 100 °C	f = 100 kHz; B̂ = 100 mT; T = 100 °C	f = 100 kHz; B̂ = 200 mT; T = 100 °C	f = 400 kHz; B̂ = 50 mT; T = 100 °C
3C81	≥320	≤ 1.0	–	–	–
3C91	≥315	–	≤ 0.22 ⁽¹⁾	≤ 1.6 ⁽¹⁾	–
3F3	≥315	–	≤ 0.48	–	≤ 0.83

Note

1. Measured at 60 °C.

BOBBINS AND ACCESSORIES

For coil formers, winding data and mounting parts, see data sheet, "P26/16".

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DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
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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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