

DATA SHEET

PQ40/40 PQ cores and accessories

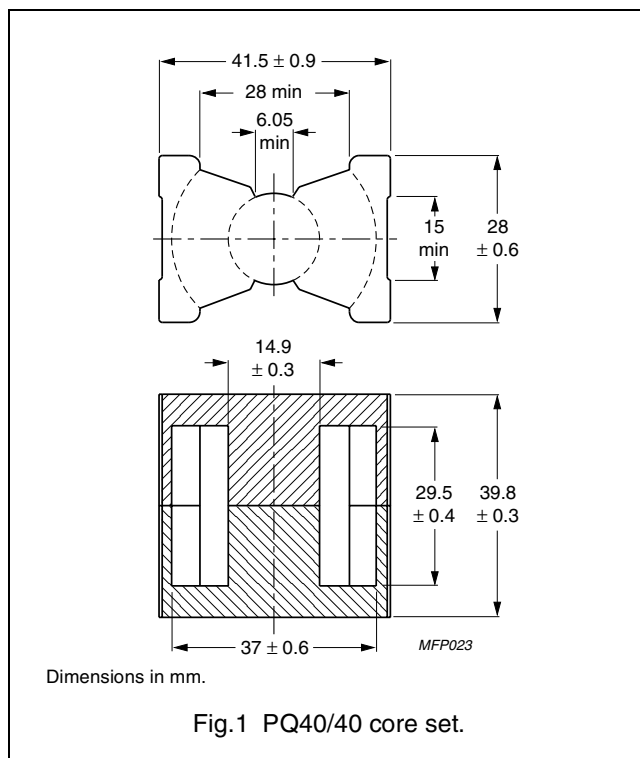
Supersedes data of September 2004

2008 Sep 01

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	0.507	mm ⁻¹
V_e	effective volume	20500	mm ³
l_e	effective length	102	mm
A_e	effective area	201	mm ²
A_{min}	minimum area	175	mm ²
m	mass of set	≈ 97	g



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
3C91 des	$6100 \pm 25 \%$	≈ 2460	≈ 0	PQ40/40-3C91
3C94	$4900 \pm 25 \%$	≈ 1980	≈ 0	PQ40/40-3C94
3C95 des	$6100 \pm 25 \%$	≈ 2460	≈ 0	PQ40/40-3C95
3C96 des	$4200 \pm 25 \%$	≈ 1690	≈ 0	PQ40/40-3C96

Properties of core sets under power conditions

GRADE	B (mT) at	CORE LOSS (W) at			
	H = 250 A/m; f = 10 kHz; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C	f = 100 kHz; B = 200 mT; T = 25 °C	f = 100 kHz; B = 200 mT; T = 100 °C	f = 500 kHz; B = 50 mT; T = 100 °C
3C91	≥320	≤ 1.65 ⁽¹⁾	–	≤ 10 ⁽¹⁾	–
3C94	≥320	≤ 2.1	–	≤ 12.6	–
3C95	≥320	–	≤ 12.9	≤ 12.3	–
3C96	≥340	≤ 1.65	–	≤ 10	≤ 8.0

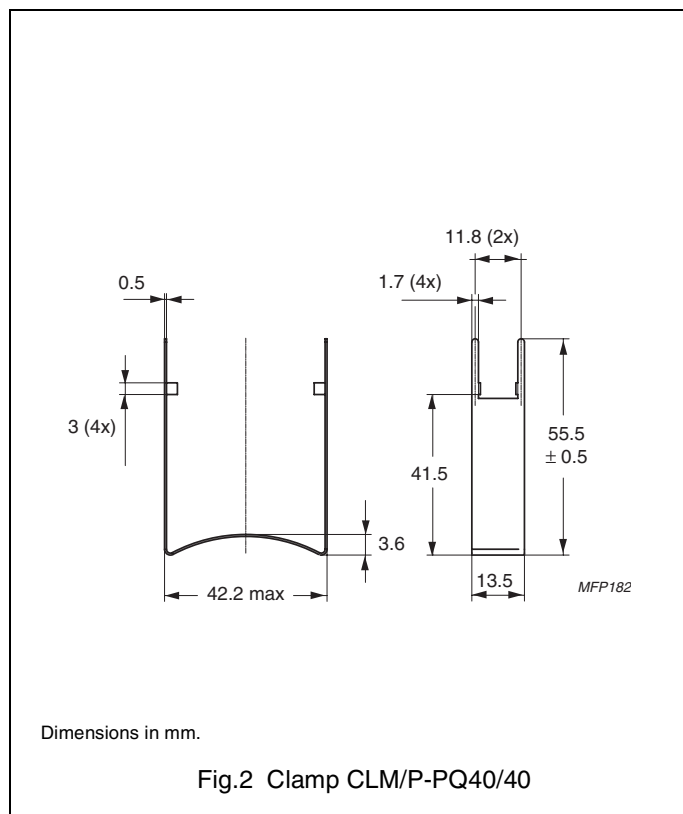
Note

1. Measured at 60 °C.

MOUNTING PARTS

General data

ITEM	REMARKS	TYPE NUMBER
Clamp	phosphorbronze, Sn plated, earth pins solderability acc. to "IEC 60068-2-20", Part 2, Test Ta, method 1: 235 °C, 2 s	CLM/P-PQ40/40






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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