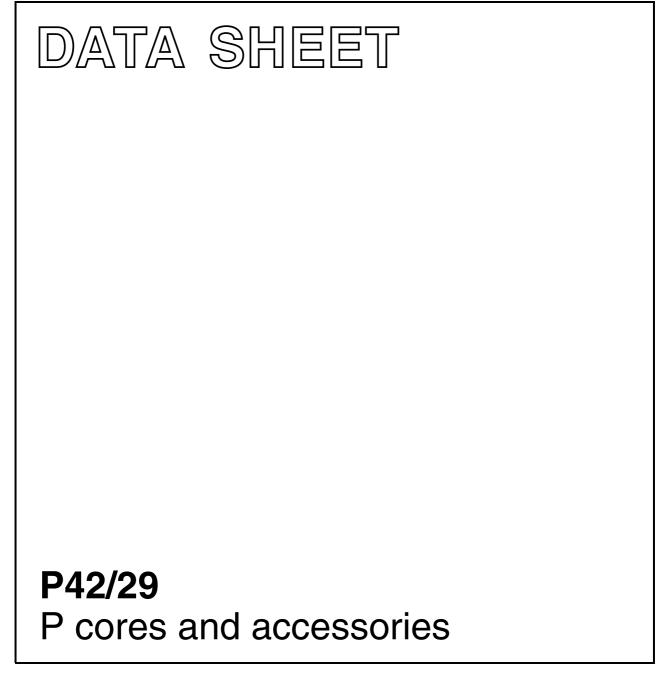
FERROXCUBE



Supersedes data of September 2004

2008 Sep 01

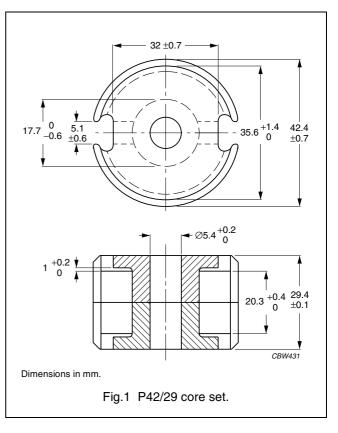


P42/29

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	0.259	mm ⁻¹
Ve	effective volume	18200	mm ³
l _e	effective length	68.6	mm
A _e	effective area	265	mm ²
A _{min}	minimum area	214	mm ²
m	mass of set	≈104	g



Core sets for general purpose transformers and power applications

Clamping force for A_L measurements, 550 ± 100 N.

GRADE	A _L (nH)	μ _e	TOTAL AIR GAP (μm)	TYPE NUMBER
3C81	315 ±3%	≈ 65	≈ 1 320	P42/29-3C81-E315
	400 ±3%	≈ 82	≈ 990	P42/29-3C81-E400
	630 ±3%	≈ 130	≈ 580	P42/29-3C81-A630
	1000 ±3%	≈ 206	≈ 340	P42/29-3C81-A1000
	1600 ±5%	≈ 330	≈ 190	P42/29-3C81-A1600
	11500 ±25%	≈ 2370	≈ 0	P42/29-3C81
3C91 des	11500 ±25%	≈ 2370	≈ 0	P42/29-3C91
3F3	315 ±3%	≈ 65	≈ 1 320	P42/29-3F3-E315
	400 ±3%	≈ 82	≈ 990	P42/29-3F3-E400
	630 ±3%	≈ 130	≈ 580	P42/29-3F3-A630
	1000 ±3%	≈ 206	≈ 340	P42/29-3F3-A1000
	1600 ±5%	≈ 330	≈ 190	P42/29-3F3-A1600
	7700 ±25%	≈ 1 590	≈ 0	P42/29-3F3

Core sets of high permeability grades

Clamping force for A_L measurements, 550 \pm 100 N.

GRADE	A _L (nH)	μ _e	AIR GAP (μm)	TYPE NUMBER
3E27	19000 ±25%	≈ 3910	≈ 0	P42/29-3E27

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	≤ 4.2	-	-	-	
3C91	≥315	—	$\le 0.9^{(1)}$	$\leq 7.0^{(1)}$	-	
3F3	≥315	—	≤ 2.0	—	≤ 3.5	

Note

1. Measured at 60 °C.

COIL FORMERS

General data CP-P42/29 coil former

PARAMETER	SPECIFICATION
Coil former material	polyamide (PA6.6), glass reinforced, flame retardant in accordance with <i>"UL 94V-0"</i> ; UL file number E41938
Maximum operating temperature	130 °C, "IEC 60085", class B

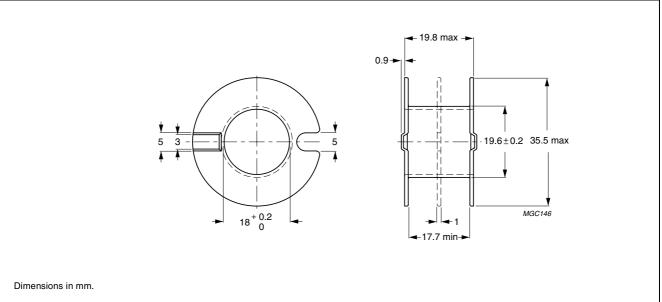


Fig.2 Coil former: CP-P42/29.

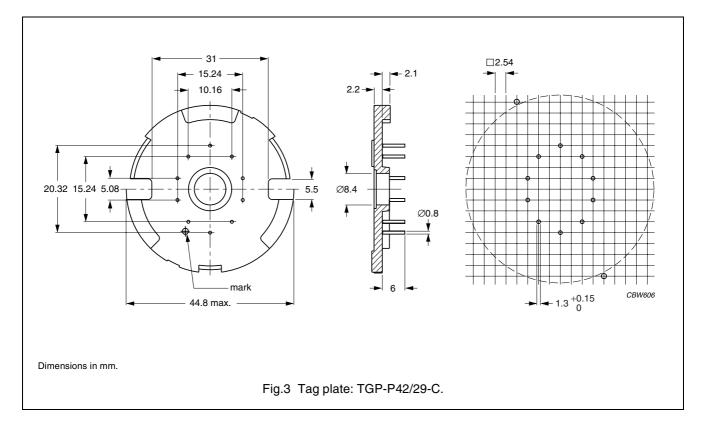
Winding data and area product for CP-P42/29 coil former

NUMBER OF SECTIONS	WINDING AREA (mm²)	MINIMUM WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	AREA PRODUCT Ae x Aw (mm ⁴)	TYPE NUMBER
1	140	17.8	86	37100	CP-P42/29-1S-C
2	2 × 63	2×8	86	2 x 16700	CP-P42/29-2S-C

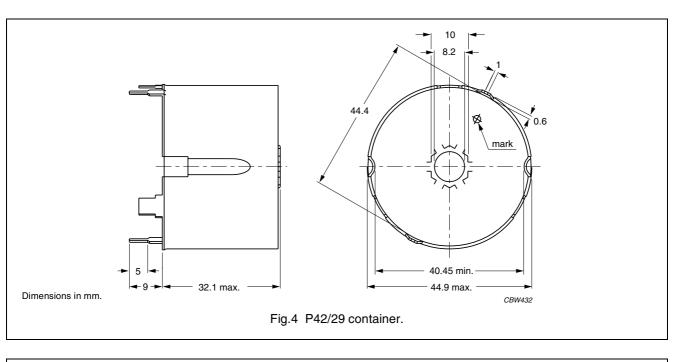
MOUNTING PARTS

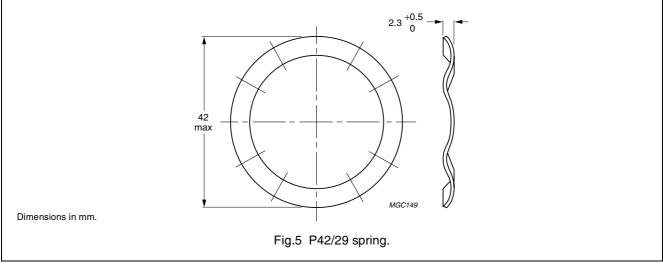
General data and ordering information

ITEM	REMARKS	FIGURE	TYPE NUMBER
Tag plate	material: phenolformaldehyde (PF), glass reinforced	3	TGP-P42/29-C
	flame retardant: in accordance with <i>"UL 94V-0"</i> ; UL file number E41429		
	maximum operating temperature: 180 °C, "IEC 60085", class H		
	pins: copper-tin alloy (CuSn), tin (Sn) plated		
	resistance to soldering heat in accordance with "IEC 60068-2-20", Part 2, Test Tb, method 1B: 350 °C, 3.5 s		
	solderability in accordance with "IEC 60068-2-20", Part 2, Test Ta, method 1: 235 °C, 2 s		
Container	copper-zinc alloy (CuZn), tin (Sn) plated		CON-P42/29
	earth pins: presoldered		
Spring	CrNi-steel		SPR-P42/29
	spring force: ≈350 N when mounted		



P42/29





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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Ferrite Cable Cores category:

Click to view products by Ferroxcube manufacturer:

Other Similar products are found below :

2643626102 FX28R0984-0 FX28R0984-2 AB 3X2X3SM 2643164251 2643665709 2661626402 LB 2.8X4.5U 28R1127 28R1260 28R1575 SM28R0760 SM28R1531 2631006302 2643165451 2643178351 28R0760 MS 21X14X4.5 W SM28B1101 SS7X4X3W 4327 030 16141 ASSE017-2 2643103102 2643164151 2943666671 4327 030 12611 2643163851 AB4X2X6SM 432703013631 LB4X2X8U 28B1101 28B0785 SM28R1575 SM28R1260 74270051 2643625902 74278032 2643480009 2673069901 HFB123049-300 HFB143064-100 HFB143064-300 HFB170070-000 ETD29/16/10-3C94 ETD29-3F3 ETD39-3C94 RFP1-20-10-A5 RFP1-40-28-M-A5 RFP2-10-10-A5 RFP2-25-12-A5