



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

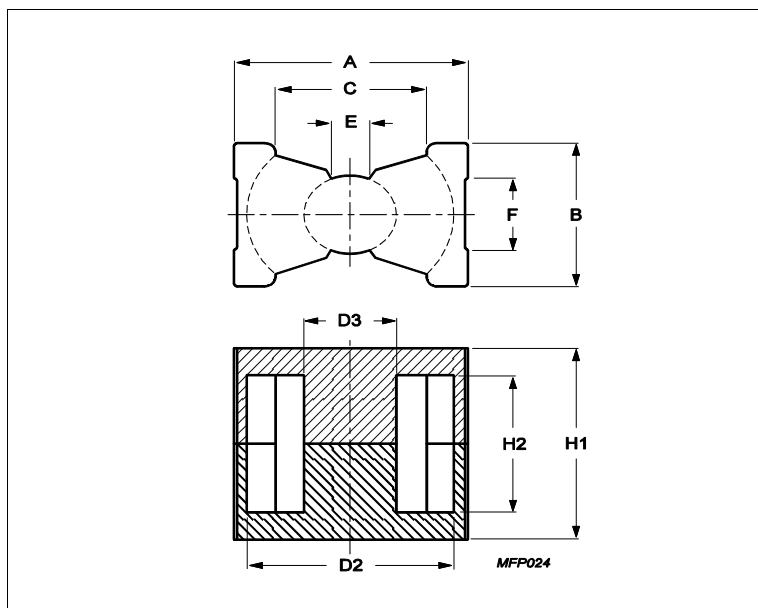
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Core **PQ50/30**



Effective parameters			
	Parameter	Value	Unit
$\Sigma(I/A)$	core factor (C1)	0.226	mm ⁻¹
Ve	effective volume	24500	mm ³
Le	effective length	74.4	mm
Ae	effective area	329	mm ²
Amin	minimum area	314	mm ²
m	PQ50/30	≈ 140.1	g/set

Dimensions for product: PQ50/30

	Nom	Tol +	Tol -	Max	Min	Unit
A	51.00	0.70	0.70	51.70	50.30	mm
B	32.00	0.60	0.60	32.60	31.40	mm
C					32.00	mm
D2	44.00	0.70	0.70	44.70	43.30	mm
D3	20.00	0.35	0.35	20.35	19.65	mm
E					8.15	mm
F					18.00	mm
H1	30.00	0.50	0.50	30.50	29.50	mm
H2	16.10	0.60	0.60	16.70	15.50	mm

Inductance factor

Material	Value	Tol +	Tol -	Unit
3C94	9500	25%	25%	nH/turns ²
3C95	13900	25%	25%	nH/turns ²
3C96	8600	25%	25%	nH/turns ²
3C97	12000	25%	25%	nH/turns ²
3F36	6100	25%	25%	nH/turns ²
3F4	4400	25%	25%	nH/turns ²

Power loss: 3C94

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	12.000	W/set

Power loss: 3C95

Measuring conditions			Max	Unit

Core **PQ50/30**

Power loss: 3C95

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	12.000	W/set
100 kHz	200 mT	25 °C	13.000	W/set

Power loss: 3C96

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	11.000	W/set
400 kHz	50 mT	100 °C	6.400	W/set

Power loss: 3C97

Measuring conditions			Max	Unit
100 kHz	200 mT	60 °C	12.000	W/set
100 kHz	200 mT	120 °C	12.000	W/set
100 kHz	200 mT	140 °C	15.000	W/set

Power loss: 3F36

Measuring conditions			Max	Unit
500 kHz	50 mT	100 °C	5.200	W/set
500 kHz	100 mT	100 °C	35.000	W/set

Power loss: 3F4

Measuring conditions			Max	Unit
1000 kHz	30 mT	100 °C	9.600	W/set
3000 kHz	10 mT	100 °C	15.000	W/set

Bsat

Measuring conditions			Material	Min	Unit
25 kHz	250 A/m	100 °C	3C94	320	mT
25 kHz	250 A/m	100 °C	3C95	330	mT
25 kHz	250 A/m	100 °C	3C96	340	mT
25 kHz	250 A/m	100 °C	3C97	330	mT
25 kHz	250 A/m	100 °C	3F36	340	mT
25 kHz	250 A/m	100 °C	3F4	330	mT