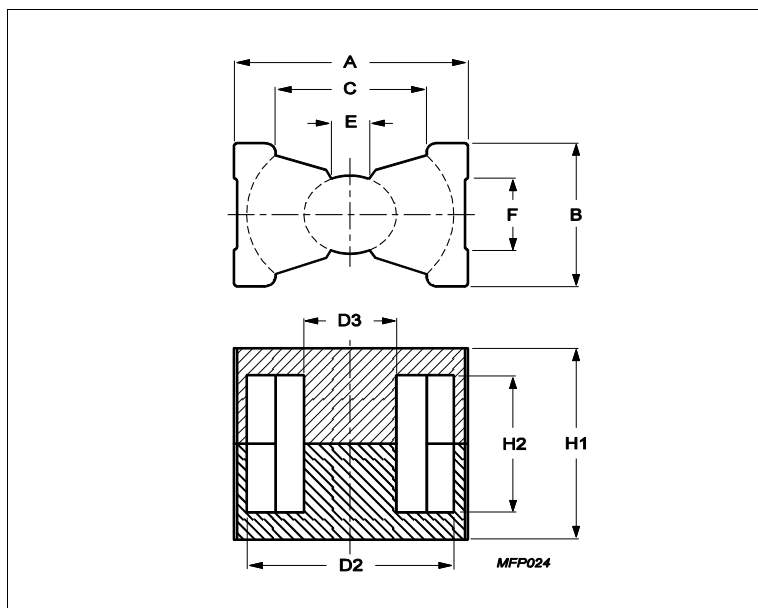


Core **PQ50/30**



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