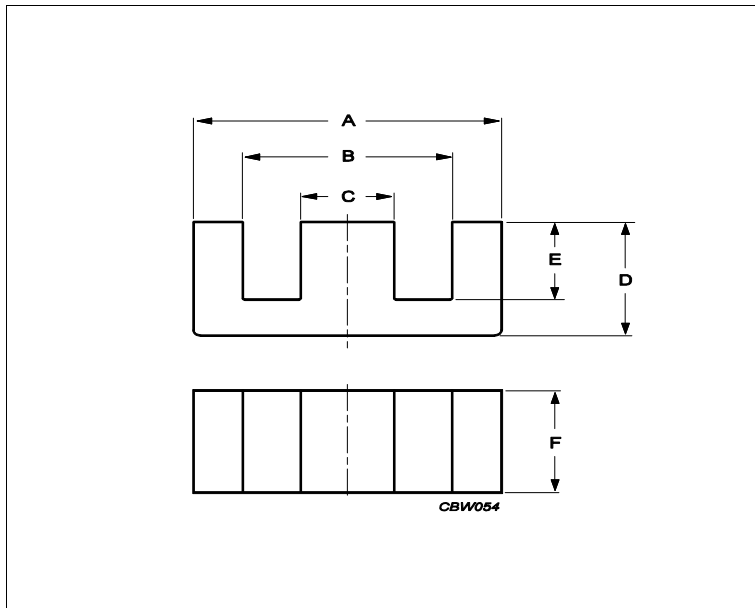


Core **E42/21/20**



Effective parameters			
	Parameter	Value	Unit
$\Sigma(I/A)$	core factor (C1)	0.417	mm ⁻¹
Ve	effective volume	22700	mm ³
Le	effective length	97	mm
Ae	effective area	233	mm ²
Amin	minimum area	233	mm ²
m	E42/21/20	≈ 56	g/pcs

Dimensions for product: E42/21/20						
	Nom	Tol +	Tol -	Max	Min	Unit
A	43.00	0.00	1.70	43.00	41.30	mm
B	29.50	1.40	0.00	30.90	29.50	mm
C	12.20	0.00	0.50	12.20	11.70	mm
D	21.00	0.20	0.20	21.20	20.80	mm
E	14.80	0.60	0.00	15.40	14.80	mm
F	20.00	0.00	0.80	20.00	19.20	mm

Inductance factor					
Material	Value	Tol +	Tol -	Unit	
3C91	6950	25%	25%	nH/turns ²	
3C92	4100	25%	25%	nH/turns ²	
3C94	5200	25%	25%	nH/turns ²	
3C95	6950	25%	25%	nH/turns ²	
3F36	3500	25%	25%	nH/turns ²	

Power loss: 3C91					
Measuring conditions			Max	Unit	
100 kHz	200 mT	60 °C	11.000	W/set	
Power loss: 3C92					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	11.000	W/set	
Power loss: 3C94					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	11.000	W/set	

Core **E42/21/20**

Power loss: 3C95

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	11.000	W/set
100 kHz	200 mT	25 °C	12.000	W/set

Power loss: 3F36

Measuring conditions			Max	Unit
500 kHz	50 mT	100 °C	3.900	W/set
500 kHz	100 mT	100 °C	28.000	W/set

Bsat

Measuring conditions			Material	Min	Unit
25 kHz	250 A/m	100 °C	3C91	320	mT
25 kHz	250 A/m	100 °C	3C92	370	mT
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	3F36	340	mT

Accessories

Ordering name	Description	Ordering code
CP-E42/21/20-1S	Coil former, termoplastic	433500027011
CPH-E42/20-1S-12PD-Z	Coil former, termoplastic, horizontal	433506027121