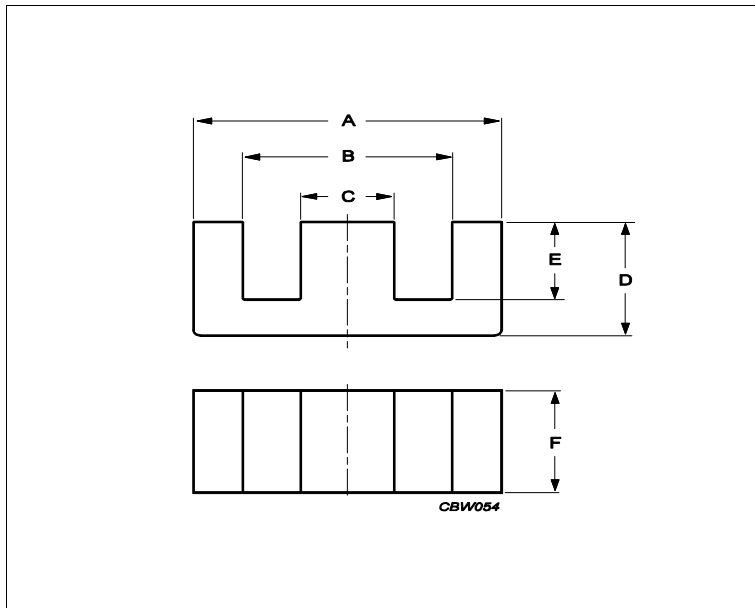


## Core **E42/21/20**



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

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

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

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