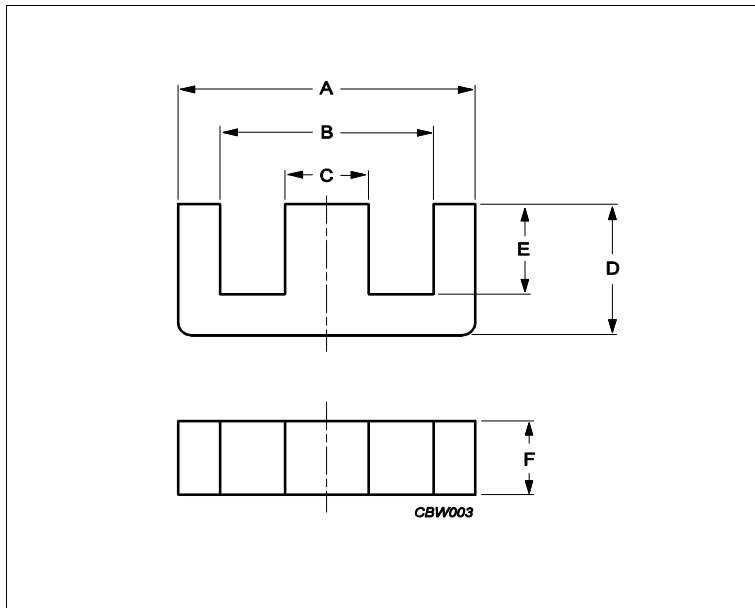


Core **E42/33/20**



Effective parameters			
	Parameter	Value	Unit
$\Sigma(I/A)$	core factor (C1)	0.614	mm ⁻¹
Ve	effective volume	34200	mm ³
Le	effective length	145	mm
Ae	effective area	236	mm ²
Amin	minimum area	234	mm ²
m	E42/33/20	≈ 82	g/pcs

Dimensions for product: E42/33/20						
	Nom	Tol +	Tol -	Max	Min	Unit
A	42.00	1.00	0.70	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	32.80	0.00	0.40	32.80	32.40	mm
E	26.00	1.00	0.00	27.00	26.00	mm
F	20.00	0.00	0.80	20.00	19.20	mm

Inductance factor					
Material	Value	Tol +	Tol -	Unit	
3C91	4990	25%	25%	nH/turns ²	
3C92	2900	25%	25%	nH/turns ²	
3C94	4000	25%	25%	nH/turns ²	
3C95	4990	25%	25%	nH/turns ²	
3F36	2500	25%	25%	nH/turns ²	

Power loss: 3C91					
Measuring conditions			Max	Unit	
100 kHz	200 mT	60 °C	17.000	W/set	
Power loss: 3C92					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	17.000	W/set	
Power loss: 3C94					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	17.000	W/set	

Core **E42/33/20**

Power loss: 3C95

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	16.000	W/set
100 kHz	200 mT	25 °C	18.000	W/set

Power loss: 3F36

Measuring conditions			Max	Unit
500 kHz	50 mT	100 °C	5.900	W/set
500 kHz	100 mT	100 °C	42.000	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