



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

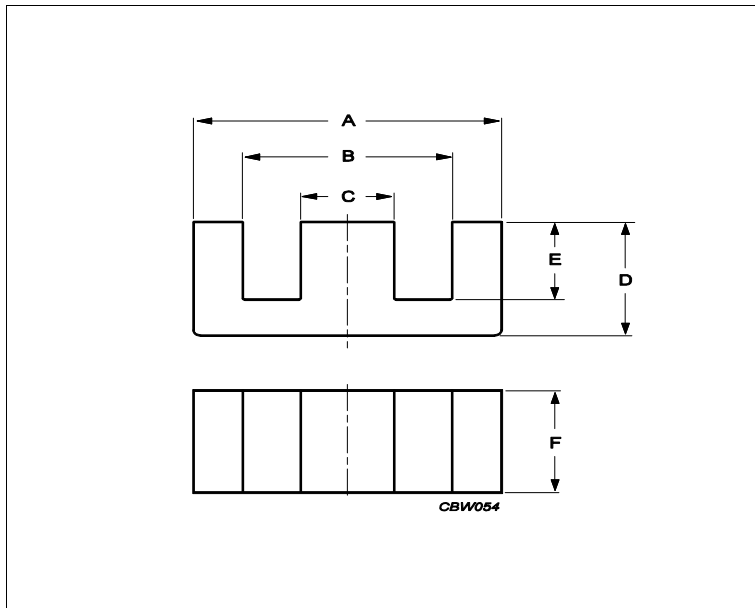
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Core **E42/21/15**



Effective parameters			
	Parameter	Value	Unit
$\Sigma(I/A)$	core factor (C1)	0.548	mm ⁻¹
Ve	effective volume	17300	mm ³
Le	effective length	97	mm
Ae	effective area	178	mm ²
Amin	minimum area	175	mm ²
m	E42/21/15	≈ 44	g/pcs

Dimensions for product: E42/21/15						
	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	15.20	0.00	0.60	15.20	14.60	mm

Inductance factor					
Material	Value	Tol +	Tol -	Unit	
3C91	5300	25%	25%	nH/turns ²	
3C92	3100	25%	25%	nH/turns ²	
3C94	4100	25%	25%	nH/turns ²	
3C95	5300	25%	25%	nH/turns ²	
3F36	2700	25%	25%	nH/turns ²	

Power loss: 3C91					
Measuring conditions			Max	Unit	
100 kHz	200 mT	60 °C	8.700	W/set	
Power loss: 3C92					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	8.700	W/set	
Power loss: 3C94					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	8.700	W/set	

Core **E42/21/15**

Power loss: 3C95				
Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	8.300	W/set
100 kHz	200 mT	25 °C	9.000	W/set
Power loss: 3F36				
Measuring conditions			Max	Unit
500 kHz	50 mT	100 °C	2.600	W/set
500 kHz	100 mT	100 °C	20.000	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
CLA-E42/21/15	Clasp	432202100931
CP-E42/21/15-1S	Coil former, termoplastic	432202102641
CPH-E42/21/15-1S-10P	Coil former, termoplastic, horizontal	432202131833
SPR-E42/21/15	Spring	432202100921