



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

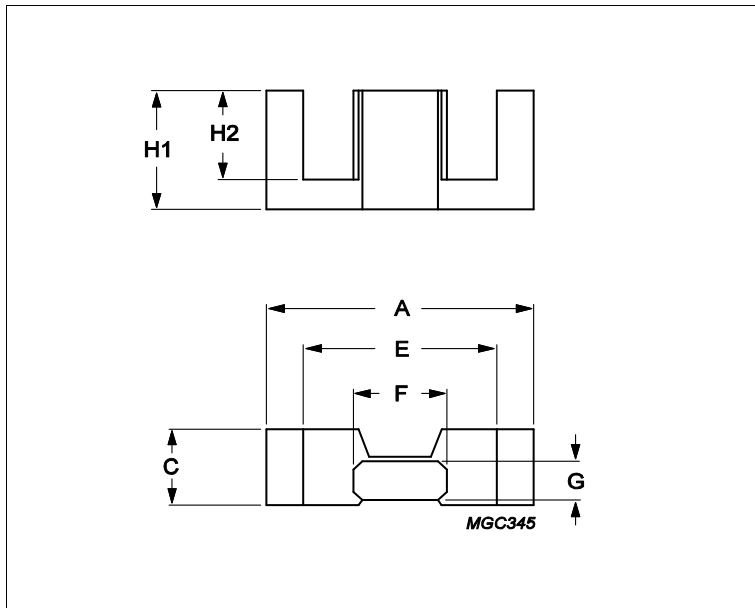
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## Core **EFD20/10/7**



Effective parameters			
	Parameter	Value	Unit
$\Sigma(I/A)$	core factor (C1)	1.52	mm <sup>-1</sup>
<b>Ve</b>	effective volume	1460	mm <sup>3</sup>
<b>Le</b>	effective length	47	mm
<b>Ae</b>	effective area	31	mm <sup>2</sup>
<b>Amin</b>	minimum area	29	mm <sup>2</sup>
<b>m</b>	EFD20/10/7	≈ 3.5	g/pcs

Dimensions for product: EFD20/10/7

	Nom	Tol +	Tol -	Max	Min	Unit
<b>A</b>	20.00	0.55	0.55	20.55	19.45	mm
<b>C</b>	6.65	0.15	0.15	6.80	6.50	mm
<b>E</b>	15.40	0.50	0.50	15.90	14.90	mm
<b>F</b>	8.90	0.20	0.20	9.10	8.70	mm
<b>G</b>	3.60	0.15	0.15	3.75	3.45	mm
<b>H1</b>	10.00	0.15	0.15	10.15	9.85	mm
<b>H2</b>	7.70	0.25	0.25	7.95	7.45	mm

Inductance factor

Material	Value	Tol +	Tol -	Unit
3C95	1540	25%	25%	nH/turns <sup>2</sup>
3C96	1200	25%	25%	nH/turns <sup>2</sup>
3F36	950	25%	25%	nH/turns <sup>2</sup>
3F46	580	25%	25%	nH/turns <sup>2</sup>

Power loss: 3C95

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	0.700	W/set
100 kHz	200 mT	25 °C	0.760	W/set

Power loss: 3C96

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	0.660	W/set
400 kHz	50 mT	100 °C	0.260	W/set

## Core **EFD20/10/7**

### Power loss: 3F36

Measuring conditions			Max	Unit
500 kHz	50 mT	100 °C	0.220	W/set
500 kHz	100 mT	100 °C	1.700	W/set

### Power loss: 3F46

Measuring conditions			Max	Unit
1000 kHz	50 mT	100 °C	0.580	W/set
3000 kHz	10 mT	100 °C	0.220	W/set

### Bsat

Measuring conditions			Material	Min	Unit
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	3F36	340	mT
25 kHz	250 A/m	100 °C	3F46	330	mT

### Accessories

Ordering name	Description	Ordering code
CLI-EFD20	Clip	432202135151
CLM-EFD20	Clamp	432202102211
CPH-EFD20-1S-10PD-Z	Coil former, termoplastic, horizontal	432202106161
CPHS-EFD20/7-1S-10P	Coil former, termoplastic, horizontal, S	432202100071
CSH-EFD20-1S-8P-IZ	Coil former, termoset, horizontal	432202106931
CSH-EFD20-1S-8P-TZ	Coil former, termoset, horizontal	432202106291
CSHS-EFD20-1S-10P-Z	Coil former, termoset, horizontal, SMD	432202106091
CSHS-EFD20-1S-12P	Coil former, termoset, horizontal, SMD	432202104331