



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

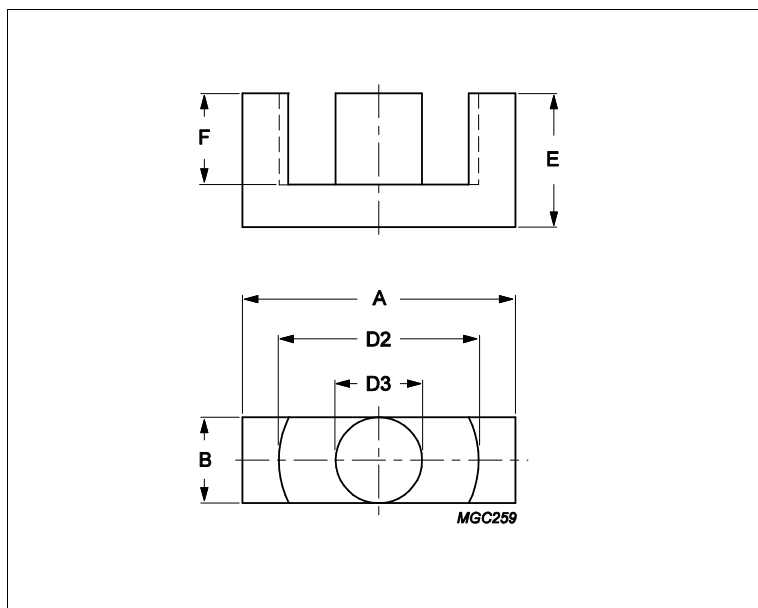
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Core **ETD39/20/13**



Effective parameters			
	Parameter	Value	Unit
$\Sigma(I/A)$	core factor (C1)	0.737	mm ⁻¹
Ve	effective volume	11500	mm ³
Le	effective length	92.2	mm
Ae	effective area	125	mm ²
Amin	minimum area	123	mm ²
m	ETD39/20/13	≈ 30	g/pcs

Dimensions for product: ETD39/20/13						
	Nom	Tol +	Tol -	Max	Min	Unit
A	40.00	0.00	1.80	40.00	38.20	mm
B	12.80	0.00	0.60	12.80	12.20	mm
D2	29.30	1.60	0.00	30.90	29.30	mm
D3	12.80	0.00	0.60	12.80	12.20	mm
E	19.80	0.20	0.20	20.00	19.60	mm
F	14.20	0.80	0.00	15.00	14.20	mm

Inductance factor					
Material	Value	Tol +	Tol -	Unit	
3C94	2900	25%	25%	nH/turns ²	
3C95	3650	25%	25%	nH/turns ²	
3C97	3650	25%	25%	nH/turns ²	
3F36	2000	25%	25%	nH/turns ²	
3F46	1200	25%	25%	nH/turns ²	

Power loss: 3C94					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	5.800	W/set	
Power loss: 3C95					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	5.500	W/set	
100 kHz	200 mT	25 °C	6.000	W/set	
Power loss: 3C97					
Measuring conditions			Max	Unit	

Core **ETD39/20/13**

Power loss: 3C97

Measuring conditions			Max	Unit
100 kHz	200 mT	60 °C	5.800	W/set
100 kHz	200 mT	120 °C	5.500	W/set
100 kHz	200 mT	140 °C	6.900	W/set

Power loss: 3F36

Measuring conditions			Max	Unit
500 kHz	50 mT	100 °C	1.700	W/set
500 kHz	100 mT	100 °C	13.000	W/set

Power loss: 3F46

Measuring conditions			Max	Unit
1000 kHz	50 mT	100 °C	6.500	W/set
3000 kHz	10 mT	100 °C	4.200	W/set

Bsat

Measuring conditions			Material	Min	Unit
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	3C97	330	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-ETD39	Clip	432202133902
CPH-ETD39-1S-16P	Coil former, termoplastic, horizontal	432202133862
CPH-ETD39-1S-16P-C	Coil former, termoplastic, horizontal	432202101651