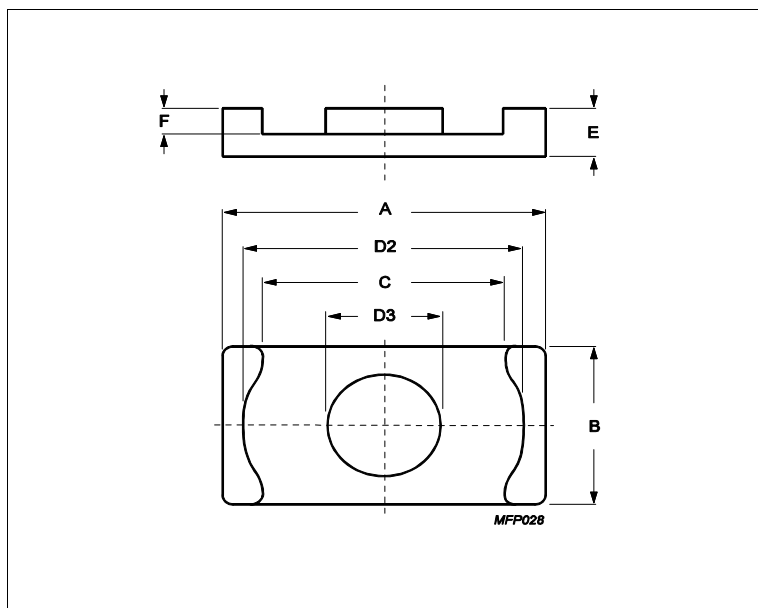


## Core **ER18/3.2/10**



Effective parameters			
	Parameter	Value	Unit
$\Sigma(I/A)$	core factor (C1)	0.73	mm <sup>-1</sup>
<b>Ve</b>	effective volume	667	mm <sup>3</sup>
<b>Le</b>	effective length	22.1	mm
<b>Ae</b>	effective area	30.2	mm <sup>2</sup>
<b>Amin</b>	minimum area	30.1	mm <sup>2</sup>
<b>m</b>	ER18/3.2/10	≈ 1.6	g/pcs

**Dimensions for product: ER18/3.2/10**

	Nom	Tol +	Tol -	Max	Min	Unit
<b>A</b>	18.00	0.35	0.35	18.35	17.65	mm
<b>B</b>	9.70	0.20	0.20	9.90	9.50	mm
<b>C</b>					13.50	mm
<b>D2</b>	15.60	0.30	0.30	15.90	15.30	mm
<b>D3</b>	6.20	0.15	0.15	6.35	6.05	mm
<b>E</b>	3.15	0.10	0.10	3.25	3.05	mm
<b>F</b>	1.60	0.10	0.10	1.70	1.50	mm

**Inductance factor**

Material	Value	Tol +	Tol -	Unit
3C92	1900	25%	25%	nH/turns <sup>2</sup>
3C95	3120	25%	25%	nH/turns <sup>2</sup>
3C96	2400	25%	25%	nH/turns <sup>2</sup>
3C97	3120	25%	25%	nH/turns <sup>2</sup>
3F36	1700	25%	25%	nH/turns <sup>2</sup>
3F46	1100	25%	25%	nH/turns <sup>2</sup>

**Power loss: 3C92**

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	0.330	W/set

**Power loss: 3C95**

Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	0.320	W/set
100 kHz	200 mT	25 °C	0.350	W/set

## Core **ER18/3.2/10**

Power loss: 3C96				
Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	0.300	W/set
400 kHz	50 mT	100 °C	0.120	W/set
Power loss: 3C97				
Measuring conditions			Max	Unit
100 kHz	200 mT	60 °C	0.330	W/set
100 kHz	200 mT	120 °C	0.320	W/set
100 kHz	200 mT	140 °C	0.400	W/set
Power loss: 3F36				
Measuring conditions			Max	Unit
500 kHz	50 mT	100 °C	0.100	W/set
500 kHz	100 mT	100 °C	0.770	W/set
Power loss: 3F46				
Measuring conditions			Max	Unit
1000 kHz	50 mT	100 °C	0.270	W/set
3000 kHz	10 mT	100 °C	0.073	W/set

Bsat					
Measuring conditions			Material	Min	Unit
25 kHz	250 A/m	100 °C	3C92	370	mT
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	3C97	330	mT
25 kHz	250 A/m	100 °C	3F36	340	mT
25 kHz	250 A/m	100 °C	3F46	330	mT