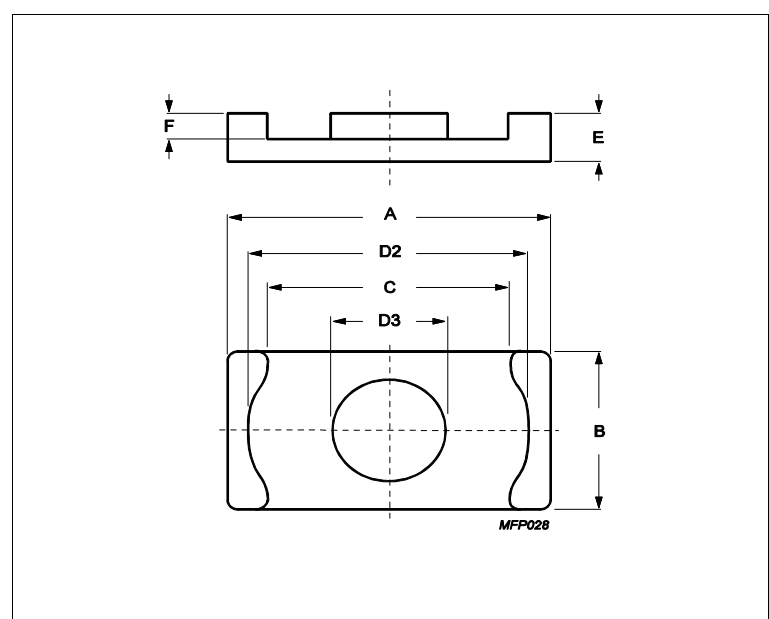


Core

ER18/3.2/10



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

Dimensions for product: ER18/3.2/10						
	Nom	Tol +	Tol -	Max	Min	Unit
A	18.00	0.35	0.35	18.35	17.65	mm
B	9.70	0.20	0.20	9.90	9.50	mm
C					13.50	mm
D2	15.60	0.30	0.30	15.90	15.30	mm
D3	6.20	0.15	0.15	6.35	6.05	mm
E	3.15	0.10	0.10	3.25	3.05	mm
F	1.60	0.10	0.10	1.70	1.50	mm

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

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