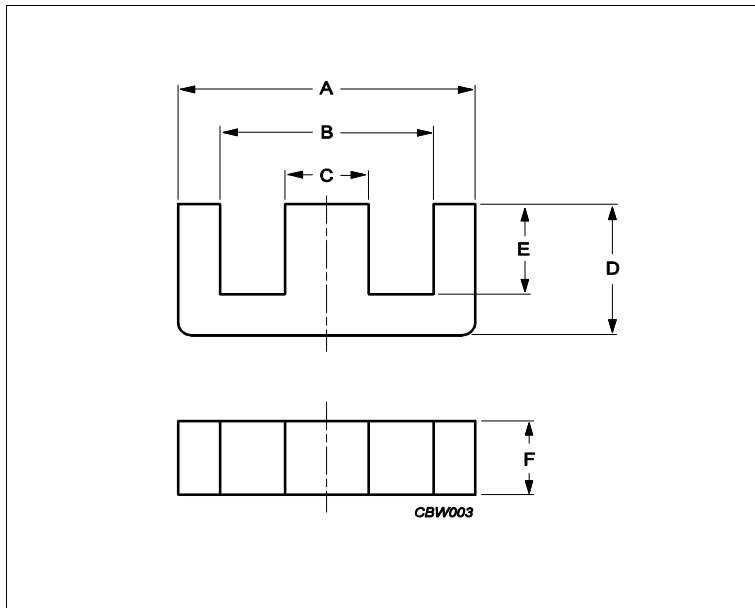


Core **E47/20/16**



Effective parameters			
	Parameter	Value	Unit
$\Sigma(I/A)$	core factor (C1)	0.38	mm ⁻¹
Ve	effective volume	20800	mm ³
Le	effective length	88.9	mm
Ae	effective area	234	mm ²
Amin	minimum area	226	mm ²
m	E47/20/16	≈ 53	g/pcs

Dimensions for product: E47/20/16						
	Nom	Tol +	Tol -	Max	Min	Unit
A	46.90	0.80	0.80	47.70	46.10	mm
B	32.40	0.65	0.65	33.05	31.75	mm
C	15.60	0.25	0.25	15.85	15.35	mm
D	19.60	0.20	0.20	19.80	19.40	mm
E					12.10	mm
F	15.60	0.25	0.25	15.85	15.35	mm

Inductance factor					
Material	Value	Tol +	Tol -	Unit	
3C91	7540	25%	25%	nH/turns ²	
3C92	4400	25%	25%	nH/turns ²	
3C94	5600	25%	25%	nH/turns ²	
3C95	7540	25%	25%	nH/turns ²	
3F36	3800	25%	25%	nH/turns ²	

Power loss: 3C91					
Measuring conditions			Max	Unit	
100 kHz	200 mT	60 °C	10.000	W/set	
Power loss: 3C92					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	10.000	W/set	
Power loss: 3C94					
Measuring conditions			Max	Unit	
100 kHz	200 mT	100 °C	10.000	W/set	

Core **E47/20/16**

Power loss: 3C95				
Measuring conditions			Max	Unit
100 kHz	200 mT	100 °C	10.000	W/set
100 kHz	200 mT	25 °C	11.000	W/set

Power loss: 3F36				
Measuring conditions			Max	Unit
500 kHz	50 mT	100 °C	3.600	W/set
500 kHz	100 mT	100 °C	26.000	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
CPH-E47/16-1S-12PD-Z	Coil former, termoplastic, horizontal	433506027131