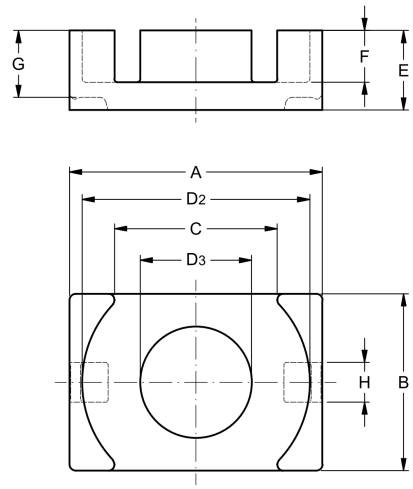
Product Specifications

FERROXCUBE

Core type:	EQ20/R
Selling unit:	PCS

Product dimensions (mm): EQ20/R					
	Nom	Tol +	Tol -	Max	Min
A	20.00	0.35	0.35	20.35	19.65
B	14.00	0.30	0.30	14.30	13.70
C	12.86	0.35	0.35	13.21	12.51
D2	18.00	0.35	0.35	18.35	17.65
D3	8.80	0.15	0.15	8.95	8.65
E	6.30	0.10	0.10	6.40	6.20
F	4.10	0.15	0.15	4.25	3.95
G	5.30	0.15	0.15	5.45	5.15
H	2.90	0.10	0.10	3.00	2.80



Effective parameters				
Effective area	Minimum area	Effective length	Effective volume	Core factor
Ae = 59 [mm²]	Amin = 55 [mm²]	Le = 33.2 [mm]	Ve = 1960 [mm³]	C1 = 0.563 [mm⁻¹]

Inductance factor							
Material	Value	Tol +	Tol -	Measuring conditions			Unit
3C95	4160	25%	25%	10 kHz	< 0.1 mT	25°C	nH/turns²
3C96	3150	25%	25%	10 kHz	< 0.1 mT	25°C	nH/turns²
3F36	2500	25%	25%	10 kHz	< 0.1 mT	25°C	nH/turns²
3F46	1500	25%	25%	10 kHz	< 0.1 mT	25°C	nH/turns²

Power loss						
Material	Symbol	Value	Measuring conditions			Unit
3C95	Pv	< 0.94	100 kHz	200 mT	100°C	W/set
3C95	Pv	< 1	100 kHz	200 mT	25°C	W/set
3C96	Pv	< 0.88	100 kHz	200 mT	100°C	W/set
3C96	Pv	< 0.35	400 kHz	50 mT	100°C	W/set
3F36	Pv	< 0.29	500 kHz	50 mT	100°C	W/set
3F36	Pv	< 2.3	500 kHz	100 mT	100°C	W/set
3F46	Pv	< 0.78	1000 kHz	50 mT	100°C	W/set
3F46	Pv	< 0.42	3000 kHz	10 mT	100°C	W/set

Bsat						
Material	Symbol	Value	Measuring conditions			Unit
3C95	Bsat	> 330	10 kHz	250 A/m	100°C	mT

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Bsat						
Material	**Symbol**	**Value**	**Measuring conditions**			**Unit**
3C96	Bsat	> 340	10 kHz	250 A/m	100°C	mT
3F36	Bsat	> 320	10 kHz	250 A/m	100°C	mT
3F46	Bsat	> 330	10 kHz	250 A/m	100°C	mT