

Ferrite Cores

Material Characteristics Table

Ferrite Material Characteristics

FOR EMC PREVENTION COMMON-MODE CHOKE

Material			HS52	HS72	HS10
Initial permeability	μ_i		5500±25%	7500±25% (2000min. at 500kHz)	10000±25%
Relative loss factor	$\tan\delta/\mu_i \times 10^{-6}$		10 (100kHz)	30 (100kHz)	30 (100kHz)
Saturation magnetic flux density* [H=1194A/m]	B_s	mT	410	410	380
Remanent flux density*	B_r	mT	70	80	120
Coercive force*	H_c	A/m	6	6	5
Curie temperature*	T_c	°C	>130	>130	>120
Electrical resistivity*	ρ_v	$\Omega\cdot m$	1	0.2	0.2
Density*	d_b	kg/m ³	4.9×10 ³	4.9×10 ³	4.9×10 ³

* Average value

• The values were obtained with toroidal cores at room temperature unless otherwise shown.