

Material Characteristics (15)

	Symbol	Unit	Measuring Conditions			Conventional High Bs Materials			
			Freq.	Flux den.	Temp.	A30	A31	A40	A50
Initial Permeability	μ_i		≤10kHz	0.25mT	25°C	300 ± 25%	300 ± 25%	400 ± 25%	500 ± 25%
Saturation Flux Density	Bs	mT	10kHz	H=4000A/m	25°C	435	435	430	330
Remanence	Br	mT	10kHz	H = 4000A/m	25°C	300	180	320	125
Coercivity	Hc	A/m	10kHz	H = 4000A/m	25°C	68	52	62	56
Relative Loss Factor	$\tan\delta/\mu_i$	10 ⁻⁶	0.1MHz	< 0.25mT	25°C	-	-	-	30
			0.4MHz			-	50	-	-
			1MHz			40	-	35	-
Temperature Factor of Permeability	α_F	10 ⁻⁶ /°C	10kHz	< 0.25 mT	20 ~ 80°C	≤ 25	≤ 25	≤ 20	1 ~ 5
Curie Temperature	Tc	°C				≥ 250	≥ 250	≥ 250	≥ 150
Resistivity	ρ	Ωm				> 10 ⁶	> 10 ⁶	> 10 ⁶	> 10 ⁶
Density	d	g/cm ³				5.00	5.00	5.00	5.00

Note: Material characteristics are typical for a toroid core.

Product specification will differ from these data due to the influence of geometry and size.