

Material Characteristics (13)

	Symbol	Unit	Measuring Conditions			Automotive EMI-Suppression Materials							
			Freq.	Flux den.	Temp.	K081	K10	K12	K13 ^{NEW}	K15	K151 ^{NEW}	K20	K25 ^{NEW}
Initial Permeability	μ_i		≤10kHz	0.25mT	25°C	800 ± 25%	1000 ± 25%	1200 ± 25%	1300 ± 25%	1500 ± 25%	1500 ± 25%	2000 ± 25%	2500 ± 25%
Saturation Flux Density	Bs	mT	10kHz	H = 4000A/m	25°C	400	355	-	-	-	-	-	-
				H = 1200A/m		-	-	355	340	330	290	300	275
Remanence	Br	mT	10kHz	H = 4000A/m	25°C	280	250	-	-	-	-	-	-
				H = 1200A/m		-	-	250	190	200	150	150	170
Coercivity	Hc	A/m	10kHz	H = 4000A/m	25°C	21	19	-	-	-	-	-	-
				H = 1200A/m		-	-	12	16	11	20	11	14
Relative Loss Factor	$\tan\delta/\mu_i$	10 ⁻⁶	100kHz	< 0.25mT	25°C	17	11	13	15	11	10	11	15
Temperature Factor of Permeability	α_F	10 ⁻⁶ /°C	10kHz	< 0.25 mT	20 ~ 60°C	8	8	11	8	6	4	3	3
Curie Temperature	Tc	°C				≥ 190	≥ 160	≥ 160	≥ 150	≥ 130	≥ 110	≥ 100	≥ 90
Resistivity	ρ	Ωm				> 10 ⁶	> 10 ⁶	> 10 ⁶	> 10 ⁶	> 10 ⁶	> 10 ⁶	> 10 ⁶	> 10 ⁶
Density	d	g/cm ³				5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10

Note: Material characteristics are typical for a toroid core.

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