Material Characteristics (18)

	Symbol	Unit	Measuring Conditions			For Rod Core Antenna Materials								
			Freq.	Flux den.	Temp.	H2	H3	H3A	H3B	H4	H5	H5M	H5R	H5N
Initial Permeability	μ_i		≤10kHz	0.25mT	25°C	50 ± 25%	100 ± 25%	125 ± 25%	150 ± 25%	300 ± 25%	250 ± 25%	230 ± 25%	200 ± 25%	300 ± 25%
Relative Loss Factor	$\tan\delta/\mu_i$	10^{-6}	1MHz		25°C	185	70	110	70	35	75	50	40	475
Saturation Flux Density	Bs	mT	10kHz	H = 4000A/m	25°C	400	330	320	330	330	410	430	400	390
					100°C	350	275	260	270	240	345	365	330	310
Remanence	Br	mT	10kHz	H = 4000A/m	25°C	195	225	235	245	205	295	250	290	260
					100°C	195	180	175	185	130	200	180	210	185
Coercivity	Hc	A/m	10kHz	H = 4000A/m	25°C	155	95	80	90	55	40	75	55	155
					100°C	120	65	50	60	35	30	60	35	125
Temperature Factor of Permeability	α_F	10^{-6}/°C			20 ~ 80°C	100	80	110	60	100	40	30	25	≤ 5
Curie Temperature	Tc	°C				≥ 300	≥ 250	≥ 230	≥ 220	≥ 160	≥ 250	≥ 280	≥ 240	≥ 200
Resistivity	ρ	Ωm				$> 10^6$	$> 10^6$	$> 10^6$	$> 10^6$	$> 10^6$	$> 10^6$	$> 10^6$	$> 10^6$	$> 10^6$
Density	d	g/cm^3				5.10	4.80	4.60	4.80	4.80	5.10	5.10	5.10	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.