

Material Characteristics (6)

	Symbol	Unit	Measuring Conditions			Wide Band Filter Materials				
			Freq.	Flux den.	Temp.	A05	A06 NEW	A07	A071	A102
Initial Permeability	μ_i		$\leq 10\text{kHz}$	0.25mT	25°C	5000 \pm 25%	6000 \pm 25%	7000 \pm 25%	7000 \pm 25%	10000 \pm 30%
Relative Loss Factor	$\tan\delta/\mu_i$	10 ⁻⁶	10kHz	< 0.25mT	25°C	< 4	< 4	< 8	< 8	< 10
			100kHz		25°C	< 15	< 15	< 30	< 30	< 60
Saturation Flux Density	Bs	mT	10kHz	H = 1200A/m	25°C	440	420	400	440	380
					100°C	300	280	200	280	180
Remanence	Br	mT	10kHz	H = 1200A/m	25°C	80	70	150	80	95
					100°C	90	80	110	60	75
Temperature Factor of Permeability	α_F	10 ⁻⁶ /°C	10kHz	< 0.25 mT	0 ~ 20°C	0 ~ 2	0 ~ 2.5	-1~1	-1~1	-1 ~ 1
					20 ~ 70°C	0 ~ 2	0 ~ 2.5	-1~1	-1~1	-1 ~ 1
Hysteresis Material Constant	η_b	10 ⁻⁶ /mT	10kHz	1.5-3.0mT	25°C	< 0.8	< 0.8	< 1.2	< 1.2	< 1
Disaccommodation Factor	D _F	10 ⁻⁶	10kHz	< 0.25 mT	25°C	< 3	< 3	< 2	< 2	< 2
Curie Temperature	T _c	°C				≥ 140	≥ 140	≥ 130	≥ 145	≥ 120
Resistivity	ρ	Ωm				0.20	0.20	0.35	0.35	0.15
Density	d	g/cm ³				4.85	4.85	4.90	4.90	4.90

Note: Material characteristics are typical for a toroid core.

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