Material Characteristics (5)

	Symbol	Unit	Measuring Conditions			Conventional High μ For CM Chokes Materials			
			Freq.	Flux den.	Temp.	A10	A121	A13	A151
Initial Permeability	μ_i		≤10kHz	0.25mT	25°C	10000 ± 30%	12000 ± 30%	12000 ± 30%	15000 ± 30%
Relative Loss Factor	tanδ/μ_i	10^{-6}	10kHz	< 0.25mT	25°C	< 10	< 10	< 8	< 10
			100kHz		25°C	< 60	< 60	< 40	< 110
Saturation Flux Density	Bs	mT	10kHz	H = 1200A/m	25°C	410	380	400	400
					100°C	210	180	200	170
Remanence	Br	mT	10kHz	H = 1200A/m	25°C	140	130	120	220
					100°C	110	110	65	100
Temperature Factor of Permeability	α_F	10^{-6}/°C	10kHz	< 0.25 mT	0 ~ 20°C	0 ~ 1.5	0 ~ 1.5	1 ~ 3	-1 ~ 1
					20 ~ 70°C	-0.5 ~ 1	-0.5 ~ 1	-1 ~ 1	-1 ~ 1
Hysteresis Material Constant	η_B	10^{-6}/mT	10kHz	1.5-3.0mT	25°C	< 0.5	< 0.5	< 0.5	< 0.5
Disaccommodation Factor	D_F	10^{-6}	10kHz	< 0.25 mT	25°C	< 2	< 2	< 2	< 2
Curie Temperature	Tc	°C				≥ 130	≥ 110	≥ 125	≥ 110
Resistivity	ρ	Ωm				0.15	0.12	0.15	0.10
Density	d	g/cm^3				4.90	4.90	4.90	5.00

Remark: Best impedance, and permeability v. s. frequency performance for 10,000μ_i materials.
Note: Material characteristics are typical for a toroid core.
Product specification will differ from these data due to the influence of geometry and size.

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		≤10kHz	0.25mT	25°C	5000 ± 25%	6000 ± 25%	7000 ± 25%	7000 ± 25%	10000 ± 30%
Relative Loss Factor	tanδ/μ_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	Tc	°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.

	Symbol	Unit	Measuring Conditions			Conventional High μ For CM Chokes Material
			Freq.	Flux den.	Temp.	A10
Initial Permeability	μ_i		≤ 10kHz	0.25mT	25°C	10000 ± 30%
Relative Loss Factor	tanδ/μ_i	10^{-6}	10kHz	< 0.25mT	25°C	< 10
			100kHz		25°C	< 60
Saturation Flux Density	Bs	mT	10kHz	H = 1200A/m	25°C	410
					100°C	210
Remanence	Br	mT	10kHz	H = 1200A/m	25°C	140
					100°C	110
Temperature Factor of	α_F	10^{-6}/°C	10kHz	< 0.25 mT	0 ~ 20°C	0 ~ 1.5
Permeability					20 ~ 70°C	-0.5 ~ 1
Hysteresis Material Constant	η_B	10^{-6}/mT	10kHz	1.5-3.0mT	25°C	< 0.5
Disaccommodation Factor	D_F	10^{-6}	10kHz	< 0.25 mT	25°C	< 2
Curie Temperature	Tc	°C				≥ 130
Resistivity	ρ	Ωm				0.15
Density	d	g/cm³				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.