

MAGNETIC PROPERTIES OF FERRITE MATERIALS

Material type	77	83	F	J	K	W	H
Initial Perm.	2000	300	3000	5000	290	10,000	15,000
Max. Perm.	6000	3600	4300	9500	400	20,000	23,000
Max Flux den. @ 10 oer, (gauss)	4600	3900	4700	4300	330	4300	4200
Residual Flux density, (gauss)	1150	3450	900	500	250	800	800
Vol. Resist. (ohms-cm)	1×10^2	1.5×10^3	1×10^2	1×10^2	20×10^7	$.15 \times 10^2$	$.1 \times 10^2$
Temp. Coeff. -20°C - 70°C (%/°C)	.25%	.4%	.25%	.4%	.15%	.4%	.4%
Loss Factor	4.5×10^{-6} @ 0.1 MHz	50×10^{-6} @ 0.1 MHz	4×10^{-6} @ 0.1 MHz	15×10^{-6} @ 0.1 MHz	28×10^{-6} @ 1 MHz	7×10^{-6} @ 10 KHz	15×10^{-6} @ 10 KHz
Coercive Force (Oersteds)	.22	.45	.20	.10	1	.04	.04
Curie Temp. °C	190	300	250	140	280	125	120
Resonant Cir. Freq. (MHz)	1 KHz to 2 MHz	1 KHz to 5 MHz	1 KHz to 1 MHz	1 KHz to 1 MHz	0.1 to 30 MHz	1 KHz to 250 KHz	1 KHz to 150 KHz
Wideband Freq. (MHz *)	.5 to 30 MHz	1 to 15 MHz	.5 to 30 MHz	1 to 15 MHz	50 to 500 MHz	1 KHz to 1 MHz	1KHz to 1 MHz
Attenuation RF Noise, (MHz)	1 to 40 MHz	0.5 to 20 MHz	1 to 20 MHz	0.5 to 10 MHz	200 to 5,000 MHz	100 KHz to 1 MHz	1 KHz to 500 KHz

* Based on low power, small core application. Listed frequencies will be lower with higher power.