

MAGNETIC PROPERTIES OF FERRITE MATERIALS

Property	Unit	Symbol	33	43	61	67	68	73
initial Permeability @ B <10 gauss		μ_i	600	850	125	40	20	2500
Flux Density @ Field Strength	gauss	B	2800	2900	2350	2300	2700	3900
	mT oersted A/m	H	280 5 400	290 10 800	235 15 1200	230 20 1600	270 40 3200	390 5 400
Residual Flux Density	gauss mT	B_r	1200 120	1300 130	1200 120	800 80	1000 100	1500 150
Coercive Force	oersted A/m	H_c	0.60 48	0.45 36	1.8 144	3.5 280	7.0 560	0.24 19.2
Loss Factor @ Frequency	10 ⁻⁶ MHz	$\tan \delta / \mu_i$	25 0.2	250 1.0	30 1.0	150 50	500 100	10 0.1
Temperature Coefficient of Initial Permeability (20-70 °C)	%/°C		0.10	1.25	0.10	0.05	0.10	0.65
Curie Temperature	°C	T_c	>150	>130	>350	>475	>500	>160
Resistivity	Ω cm	ρ	1x10 ²	1x10 ⁵	1x10 ⁸	1x10 ⁷	1x10 ⁷	1x10 ²
Power Loss Density 25kHz - 2000 G - 100°C 100kHz - 1000 G - 100°C	mWk/cm ³	P	- -	- -	- -	- -	- -	- -
Recommended Frequency Range	MHz							
Application Area	Low flux density devices. EMI suppression. Power magnetics. Special square loop ferrite.		<3	<10	<100	<300	<400	-
			-	20-250	>200	-	-	<30
			-	5	-	-	-	-
			-	-	-	-	-	-
See this page for additional material data			11	12	8	7	6	20

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77	78	F	H	75/J	K	P	76/W
2000	2300	3000 ± 20%	15000 ± 30%	5000 ± 20%	1500 ± 25%	2500 ± 25%	10000 ± 30%
4900 490 5 400	4800 480 5 400	4900 490	4200 420	4300 430	4600 460	5000 500	4300 430
1800 180	1500 150	1200 120	800 80	1000 100	900 90	1100 110	800 80
0.30 24	0.20 16	0.2 16	0.04 3	0.1 8	0.2 16	0.18 14	0.4 3
15 0.1	4.5 0.1						
0.7	1.0						
>200	>200	>250	>120	>140	>230	>230	>125
1x10 ²	2x10 ²						
200 -	<115 <130	240 225	- -	- -	- -	95 125	- -
<3 - <0.1 -	<2.5 - <0.5 -						
16	18						