

Diese Tabelle hilft bei der Wahl des richtigen Ferritmaterials. Erwähnen Sie, dass es einen Unterschied bei Gleichtaktunterdrückung oder Breitband-Impedanztransformatoren gibt. Im Falle der Gleichtaktunterdrückung verändert die Anzahl der Windungen den nutzbaren Frequenzbereich.

Material	Common mode choke frequency range (single turn)	Common mode choke frequency range (multiple turns)	Impedance transformer	1:1 Balun (Choke)
#31	3,5 - 100 MHz	1,5 - 50 MHz	-	1,5 - 30 MHz
#43	25 - 600 MHz	2 - 60 MHz	2 - 50 MHz	2 - 30 MHz
#52	150 - 1000 MHz	4 - 150 MHz	1 - 60 MHz	1 - 60 MHz
#61	200 - 2000 MHz	5 - 200 MHz	15 - 200 MHz	10 - 100 MHz
#77	200 kHz - 10 MHz	100 kHz - 10 MHz	0,5 - 8 MHz	1 - 8 MHz

31 Material

Property	Symbol	Value	Unit
Initial Permeability	μ_i	1500	
Flux Density @ Field strength	B	3900	Gauss
	H	5	Oersted
Residual Flux Density	Br	3200	Gauss
Coersive force	Hc	0.28	Oersted
Loss Factor @ Frequency	Tan δ / μ_i	20	10^{-6}
		1.0	MHz
Temperature Coefficient of Initial Permeability (20 -70°C)		1.6	%/°C
Curie Temperature	Tc	>130	°C
Resistivity	ρ	3000	ohm-cm

43 Material

Property	Symbol	Value	Unit	
Initial Permeability	μ_i	800		
Flux Density @ Field strength	B	2900	Gauss	
	H	10	Oersted	
Residual Flux Density	Br	1300	Gauss	
Coersive force	Hc	0.45	Oersted	
Loss Factor @ Frequency		Tan δ / μ_i	250	10 ⁻⁶
			1.0	MHz
Temperature Coefficient of Initial Permeability (20 -70°C)		1.25	%/°C	
Curie Temperature	Tc	>130	°C	
Resistivity	ρ	1×10 ⁵	ohm-cm	

52 Material

Property	Symbol	Value	Unit	
Initial Permeability	μ_i	250		
Flux Density @ Field strength	B	4200	Gauss	
	H	10	Oersted	
Residual Flux Density	Br	3300	Gauss	
Coersive force	Hc	0.6	Oersted	
Loss Factor @ Frequency		Tan δ / μ_i	45	10 ⁻⁶
			1.0	MHz
Temperature Coefficient of Initial Permeability (20 -70°C)		0.75	%/°C	
Curie Temperature	Tc	>250	°C	
Resistivity	ρ	1 x 10 ⁹	ohm-cm	

61 Material

Property	Symbol	Value	Unit
Initial Permeability	μ_i	125	
Flux Density @ Field strength	B	2500	Gauss
	H	15	Oersted
Residual Flux Density	Br	1000	Gauss
Coersive force	Hc	1.1	Oersted
Loss Factor @ Frequency	Tan δ / μ_i	30	10 ⁻⁶
		1.0	MHz
Temperature Coefficient of Initial Permeability (20 -70°C)		0.1	%/°C
Curie Temperature	Tc	>300	°C
Resistivity	ρ	1 x 10 ⁸	ohm-cm

77 Material

Property	Symbol	Value	Unit
Initial Permeability	μ_i	2000	
Flux Density @ Field strength	B	5100	Gauss
	H	5	Oersted
Residual Flux Density	Br	1800	Gauss
Coersive force	Hc	0.25	Oersted
Loss Factor @ Frequency	Tan δ / μ_i	15	10 ⁻⁶
		0.1	MHz
Temperature Coefficient of Initial Permeability (20 -70°C)		1.2	%/°C
Curie Temperature	Tc	>200	°C
Resistivity	ρ	100	ohm-cm