

NiZn Ferrite Material Characteristics

Characteristics	Unit	TN1	TN2	TN4	TN6	TN8	TN10
Practical frequency	MHz	10-300	10-120	0.5-60	0.5-30	0.5-20	0.5-15
Initial Permeability μ_i		$10 \pm 25\%$	$20 \pm 25\%$	$40 \pm 25\%$	$60 \pm 25\%$	$80 \pm 25\%$	$100 \pm 25\%$
Relative temperature coefficient of initial permeability $\alpha_{\mu_{ir}}$	$10^{-6}/$	0 ~ 20	0 ~ 20	0 ~ 30	0 ~ 20	0 ~ 20	0 ~ 20
Curie temperature Tc		400	400	300	300	300	300
Saturation magnetic flux density Bs	mT	210 (16kA/m)	290 (23kA/m)	290 (23kA/m)	350 (27kA/m)	300 (23kA/m)	330 (26kA/m)
Remanent flux density Br	mT	135	185	230	215	275	220
Coercivity Hc	A/m	1945	1570	597	597	716	200
Electrical resistivity ρ	-m	10^7	10^6	10^6	10^5	10^5	10^5
Density d	kg/m ³	4.4 ± 10^3	4.4 ± 10^3	4.4 ± 10^3	4.4 ± 10^3	4.4 ± 10^3	4.4 ± 10^3
Relative loss factor $\tan\delta/\mu_i$ (10kHz)	$\times 10^{-6}$	<500(10MHz) <1000(80MHz)	<450(10MHz) <1000(10MHz)	<50(3MHz) <450(60MHz)	<12(0.05MHz) <280(30MHz)	<76(2MHz) <350(20MHz)	<6.3(1MHz)

Notes: The values in each column are typical ones, no including special requirements of customers, it should be emphasized in contract if having special requirement.

NiZn Ferrite Material Characteristics

Characteristics	Unit	TN20	TN30	TN50	TN80	TN100	TN120	TN150
Practical frequency	MHz	0.3-7	0.1-2	0.1-2	0.005-1	0.05-0.5	0.01-0.5	0.01-0.5
Initial Permeability μ_i		200 \pm 25%	3200 \pm 25%	500 \pm 25%	800 \pm 25%	1000 \pm 25%	1200 \pm 25%	1500 \pm 25%
Relative temperature coefficient of initial permeability $\alpha_{\mu_{ir}}$	10 ⁻⁶ /	0 ~ 20	0 ~ 16	0 ~ 10	0 ~ 10	0 ~ 5	0 ~ 3	0 ~ 3
Curie temperature Tc		250	150	140	130	110	100	100
Saturation magnetic flux density Bs	mT	330 (26kA/m)	330 (26kA/m)	310 (24kA/m)	300 (23kA/m)	295 (23kA/m)	290 (23kA/m)	280 (22kA/m)
Remanent flux density Br	mT	165	150	150	200	200	140	105
Coercivity Hc	A/m	48	56	16	16	16	16	16
Electrical resistivity r	-m	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Density d	kg/m ³	4.4 \pm 10 ³	4.4 \pm 10 ³	4.5 \pm 10 ³	4.5 \pm 10 ³	4.5 \pm 10 ³	4.6 \pm 10 ³	4.6 \pm 10 ³
Relative loss factor $\tan\delta/\mu_i$	10 ⁻⁶	<16(0.3MHz) <350(7MHz)	<20(0.1MHz) <60(2MHz)	<15(0.1MHz) <70(2MHz)	<12(0.05MHz) <80(1MHz)	<12(0.05MHz) <70(1MHz)	<10(0.01MHz) <60(0.5MHz)	<10(0.01MHz) <60(0.5MHz)

Notes: The values in each column are typical ones, no including special requirements of customers, it should be emphasized in contract if having special requirement.