

NiZn Ferrite Cores

NiZn Ferrite Material Characteristics

Characteristics \ Materials	Unit	R1	R2	R4C	R6	R8	R10A
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 μ_i	10 ⁻⁶ /	020	020	030	020	020	020
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	-m	10 ⁷	10 ⁶	10 ⁶	10 ⁵	10 ⁵	10 ⁵
Density d	kg/m ³	4.4 \times 10 ³	4.4 \times 10 ³	4.4 \times 10 ³	4.4 \times 10 ³	4.4 \times 10 ³	4.4 \times 10 ³
Relative loss factor Tan δ / μ_i (10kHz)	\times 10 ⁻⁶	<500 (10MHz) <1000 (80MHz)	<450(10MHz) <1000 (120MHz)	<50(3MHz) <450 (60MHz)	<90(0.5MHz) <280 (30MHz)	<76(2MHz) <350 (20MHz)	<6.3 (1MHz)

Notes: The values in each column are typical ones, not including special requirements of customers, it should be emphasized in contract if having any special requirement.

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Characteristics \ Material	Unit	R20	R30	R50	R80	R100	R120	R150
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±25%	300±25%	500±25%	800±25%	1000±25%	1200±25%	1500±25%
Relative temperature coefficient of initial μ_i permeability	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	-m	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Density d	kg/m ³	4.4×10 ³	4.4×10 ³	4.4×10 ³	4.5×10 ³	4.5×10 ³	4.6×10 ³	4.6×10 ³
Relative loss factor Tan δ / μ_i	×10 ⁻⁶	<16 (0.3MHz) <350 (7MHz)	<20 (0.1MHz) <65 (2MHz)	<15 (0.1MHz) <70 (2MHz)	<12 (0.05MHz) <80(1MHz)	<12 (0.05MHz) <70(1MHz)	<10 (0.01MHz) <60 (0.5MHz)	<10 (0.0MHz) <60 (0.5MHz)

Notes: The values in each column are typical ones, not including special requirements of customers, it should be emphasized in contract if having any special requirement.

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