

Soft Ferrite Core

Nizn Core

Nizn ferrite material have the advantage of high resistivity, high curie temperature, low temperature factor, low relative loss, good high permeability feature, which be widely used in home communication appliance, computer etc area. we are specialized in exporting the all kind of high performance Nizn series core, Initial permeability begin from 80 to 2000. Practical frequency from 1kHz to 100MHz.



Material Characteristic of Soft Nizn ferrite material

Characteristic	Symbol	Unit	Material				
			R10	R20B	R40C	R40D	R100A
Practical frequency	f	MHz	<150	<60	<60	<35	<35
Initial permeability	μ_i	-	10±20%	20±20%	40±20%	45±20%	100±20%
Relative loss factor	$tg\delta/\mu_i$	$\times 10^{-6}$	≤660	≤330	≤80	≤100	≤80
Relative loss factor			(7.95MHz)	(2.52MHz)	(2.52MHz)	(2.52MHz)	(2.52MHz)
Effective saturation magnetic flux density	B_s	mT	-	270(4000A/m)	300(4000A/m)	300(4000A/m)	350(4000A/m)
Temperature Factor of permeability	$\alpha\mu$	$\times 10^{-6}$	≤150	≤15	≤25	≤8	≤10
$j\alpha$	20~60	20~60	20~60	-5~45	20~60		
Curie Temperature	T_c	°C	>460	>400	>350	>400	>350
Resistivity	ρ	$\Omega \cdot m$	10^5	10^4	10^4	10^4	10^4
Density	d	g/m^3	4.5	4.5	4.5	4.5	4.5

Characteristic	Symbol	Unit	Material					
			R100B	R250B	R500	R750	R1K	R1.5KB
Practical frequency	f	MHz	<10	<10	<2	<1.5	<1.5	<1.0
Initial permeability	μ_i	-	100±20%	250±20%	500±20%	750±20%	1000±20%	1500±20%
Relative loss factor	$tg\delta/\mu_i$	$\times 10^{-6}$	≤55(2.52MHz)	≤40(0.795MHz)	≤30(100MHz)	≤25(100MHz)	≤40(100MHz)	≤30(100MHz)
Effective saturation magnetic flux density	B_s	mT	300(4000A/m)	370(1600A/m)	300(1600A/m)	310(1600A/m)	350(4000A/m)	280(1600A/m)

Ferrite cores, NiZn ferrite cores, use for coil, transformer soft ferrite manufacturer.

Temperature Factor of permeability	$\alpha\mu$	$\times 10^{-6}$	≤ 4.5	≤ 6	≤ 8	≤ 4	≤ 5	≤ 4
		$^{\circ}\text{C}$	20~60	20~60	20~60	-5~45	20~60	20~60
Curie Temperature	T_c	$^{\circ}\text{C}$	>300	>250	>150	>150	>150	>150
Resistivity	ρ	$\Omega\cdot\text{m}$	10^4	10^4	10^5	10^5	10^5	10^5
Density	d	g/m^3	4.5	4.6	5.0	5.0	5.0	4.8

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