

Soft Ferrite Core

NiCuZn Ferrite Core(RF)

Our Soft Ferrite Elements Factory has been developing/producing materials and elements of soft ferrite . Its series kind of the primary materials are Mn-ZN, Ni-Zn,Ni-Cu-Zn and Mg-Zn, and kinds of core specifications made of the materials are more than one thousand, such as shapes of E,U, G, Rm, PQ, LP, toroidal,post, spiral, SMD and others.



Material Characteristic of NiCuZn ferrite material

Characteristics	TYPE NO								
	RF55	RF100	RF250	RF300	RF500	RF750	RF900	RF1K	RF1.2K
Initial Permeability μ_i $\pm 25\%$	55 (2MHz)	100 (0.4MHz)	250 (0.1MHz)	300 (0.1MHz)	500 ⁺¹⁰⁰ ₋₁₅₀ (0.1MHz)	750 (0.1MHz)	900 (0.1MHz)	1000 (0.05MHz)	1200 (0.01MHz)
Relative Loss Factor $\text{tg}\delta / \mu_i (\times 10^{-6})$	≤ 200 (2MHz)	≤ 180 (20MHz)	≤ 40 (2MHz)	≤ 45 (0.1MHz)	≤ 30 (0.1MHz)	≤ 18 (0.1MHz)	≤ 80 (0.1MHz)	≤ 10 (0.05MHz)	≤ 25 (0.01MHz)
	≤ 450 (50MHz)	≤ 180 (0.4MHz)	≤ 100 (2MHz)	≤ 210 (1.5MHz)	≤ 200 (1.5MHz)	≤ 250 (1.5MHz)	≤ 150 (0.5MHz)	≤ 40 (0.5MHz)	≤ 80 (0.5MHz)
Relative temperature (20-60°C) Coefficient $\alpha_{\mu_i} (\times 10^{-6})$	0~50	30~60	15~5	-7~-3	-6~-2	3~6	0~3	1~6	0~5
Curie Temperature T_c (°C)	≥ 300	≥ 250	≥ 200	≥ 150	≥ 130	≥ 120	≥ 120	≥ 130	≥ 100
Density d (g/cm ³)	4.9	4.9	5.0	5.0	4.9	4.9	4.9	5.0	5.0
Resistivity ρ ($\Omega \cdot \text{m}$)	10^7	10^7	10^7	10^7	10^7	10^7	10^7	10^7	10^7

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Add :F/16, Jinyuan plaza, # 57 South Hubin.Road, Xiamen, CHINA 361004
Tel : (86)592 2295387 (86)592 2219816 (86)592 2217138 Fax: (86)592 2207122
Email : yingli@magnets.com.cn