

NiZn FERRITE POWDER PRODUCTS

(TYPICAL CHARACTERISTICS)

PROPERTIES	READY-TO-PRESS						LOW SINTERING TEMPERATURE				FULLY SINTERED
	BP860	BP850	BP125HR	BP125	BP80	BP40	LSF400	LSF220	LSF120	LSF50	FP350
Initial Permeability, μ_i	860	850	125	125	80	40	450	250	130	55	*
Q Factor (w/ 10 turns)	50	10	250	300	250	250	90	90	180	130	N/A
@ Frequency (MHz)	0.1	0.1	2	2	3	10	0.2	0.2	1	5	
Flux Density, Bs (Gauss)	3500	3000	3600	3000	3100	2600	3150	3250	3500	3650	N/A
@ Field Strength (Oersted)	30	30	30	30	30	40	30	30	30	30	
Residual Flux Density, Br (G)	2100	1800	1600	1200	1800	800	1800	1800	1950	2500	N/A
Coercive Force, Hc (Oersted)	0.45	0.40	2.6	1.6	4.5	4.2	2	2	3	6	N/A
Resistivity ($\Omega \cdot \text{cm}$)	10^8	10^5	10^8	10^8	107	10^7	N/A	N/A	N/A	N/A	10^9
Curie Temperature ($^{\circ}\text{C}$)	160	140	350	350	400	450	150	150	200	350	350
Shrinkage (%)	15.5	14.0	14.0	10.5	15.0	10.5	15.5	15.5	15.5	15.5	-
Sintering Temperature ($^{\circ}\text{C}$)	1220	1250	1250	1270	1220	1250	900	900	900	900	-
Soak Time (Hours)	2	3	3	3	2	3	2	2	2	2	-

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- **Other specialty NiZn ferrites (initial permeability of 50 ~ 2200) and custom ferrite compositions are available upon request.**
- **No Lead (Pb) or Cadmium (Cd) was added to any of our products.**
- Characteristics presented are typical values but not guaranteed specifications.
- Physical properties can be adjusted to meet customer requirements.
- Electromagnetic characteristics were tested on toroids by means of HP4294A Precision Impedance Analyzer.
- Pressed toroid dimension for sintering test: approx. 20.6 mm OD x 11.3 mm ID x 5.1 mm HT.
- Fully Sintered Loading Ferrite Powders:
 - Custom-made particle sizes are available; median size ranging from 10 ~ 20 μm ground powders to 80 ~ 130 μm spherical powders. *
 - Powder-loading ratio and density with binder/resin will greatly affect on inductance, attenuation and applicable frequencies.

For further information and answers to specific questions, please contact Matias Filloy at 1-219-462-4141 ext. 263 or via e-mail at mfilloy@ppttechnology.com