

Material Properties of Mn-ZN Ferrite

Property	μ_i	Working Frequenc	Bm	Br	Hc	Tc	$\alpha \mu \gamma$	Tan δ / μ_i	d	ρ
Material		MHZ	Gauss	Gauss	Oe	°C	$\times 10^{-6} / ^\circ\text{C}$	$\times 10^{-6}$	g/cm^3	Ωcm
J2M	2000	<0.5	5100	1300	0.12	220	6	8	4.9	600
JP40	2300	<0.4	5000	1200	0.12	210	8	5	4.8	500
JP30	2500	<0.4	5000	1400	0.12	220	6	5	4.8	400
J2	2800	<0.4	4800	1400	0.15	200	4	10	4.8	300
J3M	3500	<0.2	4600	1350	0.18	180	1.5	8	4.8	30
J3	3500	<0.2	4000	1300	0.1	130	1.5	15	4.8	25
J3H	4000	<0.15	4600	1600	0.18	160	1.5	15	4.8	20
J4	4500	<0.1	4000	1250	0.08	120	1.5	15	4.8	20
J5	5500	<0.1	4000	1250	0.08	110	1.5	20	4.9	15
J6	6000	<0.1	4200	1250	0.08	110	1	20	4.9	15
J7	7000	<0.1	4000	1250	0.07	110	0.6	25	4.9	10
J9	8500	<0.1	3900	1100	0.06	110	0.5	25	4.9	10

Core Loss

Material			JP40	JP30	J2	J2M
Pcv(kW/m ³) at 200 mT	25kHz	25°C	120	125	140	135
		60°C	80	85	120	100
		100°C	70	100	170	120
		120°C	85			
	100kHz	25°C	630	700	750	780
		60°C	500	500	650	620
		100°C	430	600	950	750
		120°C	510			