

MnZn Power Ferrite Material Characteristics

Characteristics		Unit	TP2	TP3	TP4	TP4A	TP5	TK	
Initial Permeability μ_i			2500 ± 25%	2500 ± 25%	2300 ± 25%	2400 ± 25%	1400 ± 25%	5000 ± 25%	
Amplitude Permeability μ_r			/	3200min	3000min	3000min	/	/	
Saturation magnetic flux density (H=1194A/m)	25	mT	500	510	510	510	470*	470	
	100	mT	390	390	390	390	380	370	
Remanence Br	25	mT	115	110	100	110	140	120	
	100	mT	500	510	510	510	470*	470	
Coercivity	25	A/m	15	12	14	13	36.5	12	
	100	A/m	12	10	9	6.5	27.2	7.0	
Pcv	25kHz 200mT Sine wave	25	kW/m ³	164	/	/	/	/	168
		100	kW/m ³	154	/	/	/	/	154
Power Loss	100kHz 200mT	25	kW/m ³	/	700	600	600	130**	/
		100	kW/m ³	/	600	410	300	80**	/
	120	kW/m ³	/	/	500	380	/	/	
Electrical resistivity ρ		-m	6.0	9	6.5	6.5	/	/	
Curie temperature Tc			220	220	215	215	240	190	
Density d		kg/m ³	4.8X10 ³	4.8X10 ³	4.8X10 ³	4.8X10 ³	4.8X10 ³	4.8X10 ³	

Notes: * applied field 1600A/m; ** at $f=500\text{kHz}$ and $B=30\text{ mT}$. The values in each column are typical ones, no including special requirements of customers, it should be emphasized in contract if having special requirement.

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Characteristics		Unit	TF	TF1	TF2	TF3	TD	
Initial Permeability μ_i			2000 \pm 25%	1800 \pm 25%	2300 \pm 25%	2300 \pm 25%	5500 \pm 25%	
Amplitude Permeability μ_i			3000	3000	3000	3000	/	
Saturation magnetic flux density (H=1194A/m)	25	mT	500	510	480	500	500	
	100	mT	390	410	360	380	380	
Remanence Br	25	mT	120	170	130	130	95	
	100	mT	85	/	/	/	55	
Coercivity	25	A/m	12	11	16	14	7.0	
	100	A/m	7	/	/	/	55	
Pcv	16kHz	25	kW/m ³	52.8	/	/	/	/
	150mT	100	kW/m ³	43.2	20.2	16.8	14.4	/
Power Loss	64kHz 200mT	100	kW/m ³	/	278.4	264.0	192.0	/
		25	kW/m ³	/	/	/	/	550
	100kHz 200mT	100	kW/m ³	/	528.0	480.0	432.0	1000
		25	kW/m ³	/	/	/	/	550
Electrical resistivity		-m	6	3	5	3	6	
Curie temperature Tc			220	200	200	200	210	
Density d		kW/m ³	4.8 \times 10 ³	4.8 \times 10 ³	4.8 \times 10 ³	4.8 \times 10 ³	4.8 \times 10 ³	

Notes: The values in each column are typical ones, no including special requirements of customers, it should be emphasized in contract if having special requirement.