



材质命名规则 Material Identification



Mn-Zn Ferrite Cross-Reference List(功率)

国家/地区	公司名称	材料牌号						
China	创一科技 CYGE	M102SP	M202P	M222P	M232P	M242P	M302SP	M332P
Japan	TDK	PC200	/	PC90	PC40	PC44	/	PC95
Europe	FERROXCUBE	/	3C96	/	3C95	3C90	3C97	/
China	东磁DMEGC	DMR51W	/	DMR28	DMR40	DMR44	/	DMR95
China	TDG	/	TP4S	TPB22	TP4	TP4A	TPG30	TPW33
Taiwan	ACME	P61	/	P49	P4	P41	P47	/

Mn-Zn H-μ Ferrite Cross-Reference List(高导)

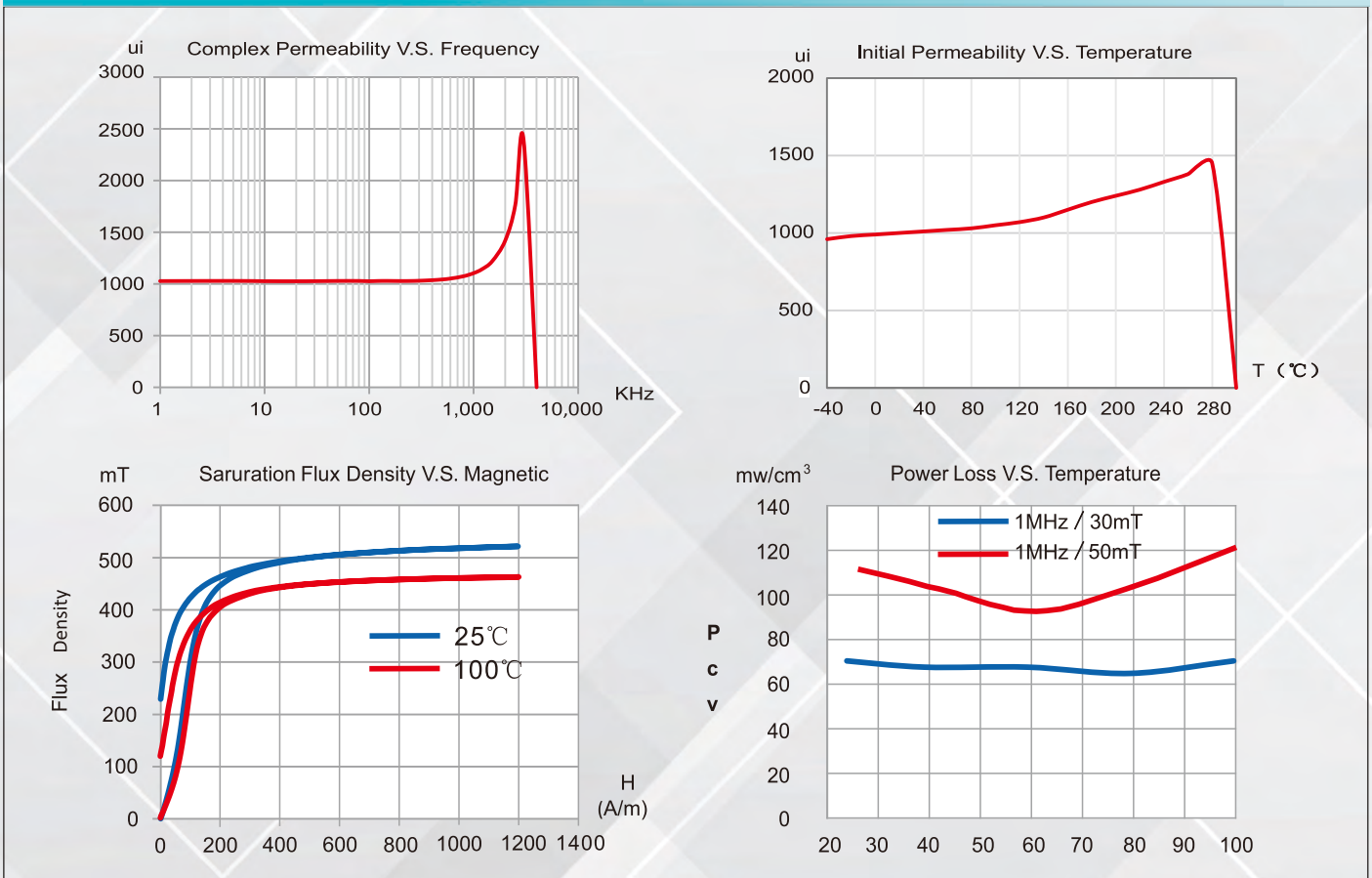
国家/地区	公司名称	材料牌号						
China	创一科技 CYGE	M382SP	M452H	M502H	M702H	M103H	M123H	M153H
Japan	TDK	3B46	/	3C11	/	3E10	3E12	/
Europe	FERROXCUBE	/	/	HP5	SH72	SH10	H5C4	H5C3
China	东磁DMEGC	DMR71	DMR73	R5K	R7K	R10K	R12K	R15K
China	TDG	/	/	TS5	TS7	TS10	TL13	TL15
Taiwan	ACME	N42	A043	A05	A07	A10	A121	A151



Mn-Zn Broadband low power consumption Ferrite Material
M102SP 材料特性 · M102SP Material Characteristics

参数 (Parameter)	特性 (Symbol)	单位 Unit	测试条件 (Measuring Conditions)			典型值 (Value)
			Freq.	Flux den.	Temp.	
初始磁导率 Initial permeability	μ_i	-	10kHz	B<0.25mT	25°C	1000±25%
饱和磁通密度 Saturation Flux Density	Bs	mT	50Hz	H=1194A/m	25°C	530
					100°C	430
剩磁 Remanence	Br	mT	50Hz	H=1194A/m	25°C	195
					100°C	158
矫顽力 Coercivity	Hc	A/m	50Hz	H=1194A/m	25°C	40
					100°C	37
功耗 Power Loss	Pcv	mw/cm ³	1MHz	30mT	25°C	80
					100°C	80
			1MHz	50mT	25°C	150
					100°C	150
居里温度 Curie Temperature	Tc	°C	10kHz	B<0.25mT		≥280
电阻率 Resistivity	ρ	Ωm				10
密度 Density	d	g/cm ³				4.8

Curve Graph of Material Characteristics

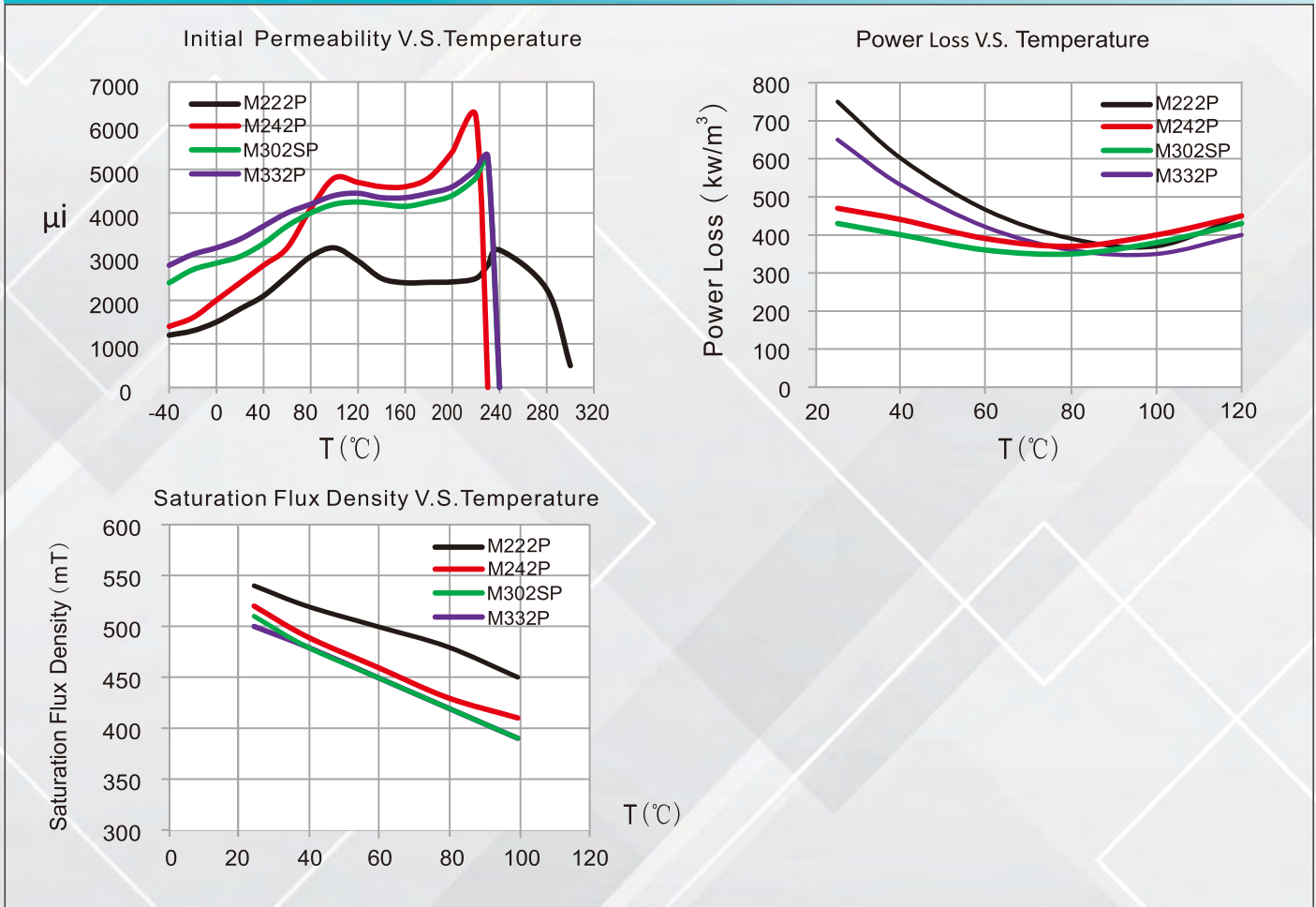




Mn-Zn Power Ferrite Material Characteristics

参数 (Parameter)	单位 Unit	测试条件 (Measuring Conditions)			M222P	M242P	M302SP	M332P
		Freq.	Flux den.	Temp.				
初始磁导率 μ_i Initial permeability	-	10kHz	B<0.25mT	25°C	2200 ± 25%	2400 ± 25%	3000 ± 25%	3300 ± 25%
饱和磁通密度 B_s Saturation Flux Density	mT	50Hz	H=1194A/m	25°C	540	500	520	510
				100°C	450	380	410	390
剩磁 B_r Remanence	mT	50Hz	H=1194A/m	25°C	220	110	50	50
				100°C	110	60	55	55
矫顽力 H_c Coercivity	A/m		H=1194A/m	25°C	21	13	8	8
				100°C	750	650	470	450
				120°C	370	350	400	380
功耗 P_c Power Loss	kw/m ³	100Hz	200mT	100°C	450	400	450	430
				120°C	450	400	450	430
居里温度 T_c Curie Temperature	°C	10kHz	B<0.25mT		≥260	≥215	≥220	≥220
电阻率 ρ Resistivity	Ω m				6	6.5	6.5	6.5
密度 d Density	g/cm ³				4.85	4.85	4.85	4.85

Curve Graph of Material Characteristics





Mn-Zn High Permeability Ferrite Material Charact

参数 (Parameter)	单位 Unit	测试条件 (Measuring Conditions)			M382SP	M452H	M103H	M123H	M153H
		Freq.	Flux den.	Temp.					
初始磁导率 μ_i Initial permeability	-	10kHz	B<0.25mT	25°C	3800 ± 25%	4500 ± 25%	10000 ± 30%	12000 ± 30%	15000 ± 30%
比损耗因子 Relative Loss Factor	10 ⁻⁶	10kHz	B<0.25mT	25°C	<0.4	<1.5	<7.0	<7.0	<10.0
饱和磁通密度 Bs Saturation Flux Density	mT	50Hz	H=1194A/m	25°C	520	470	400	380	370
				100°C	430	370	180	145	140
剩磁 Br Remanence	mT	50Hz	H=1194A/m	25°C	120	110	150	100	240
温度系数 Temperature Factor of Permeability	10 ⁻⁶ /°C	10kHz	B<0.25mT	20~60°C	-0.5~1.0	-0.5~1.0	-0.5~2.0	-1.0~2.0	-0.5~2.0
磁滞常数 Hysteresis Material Constant	10 ⁻⁶ /mT	10kHz	1.5<3.0mT	25°C	<0.3	<0.3	<1.4	<1.5	<2.0
矫顽力 Hc Coercivity	A/m		H=1194A/m	25°C	10	13	6.5	6	5
居里温度 Tc Curie Temperature	°C	10kHz	B<0.25mT		≥215	≥215	≥120	≥110	≥110
电阻率 ρ Resistivity	Ωm				6.5	6.5	0.2	0.1	0.1
密度 d Density	g/cm ³				4.90	4.90	4.95	4.95	5.00

Curve Graph of Material Characteristics

