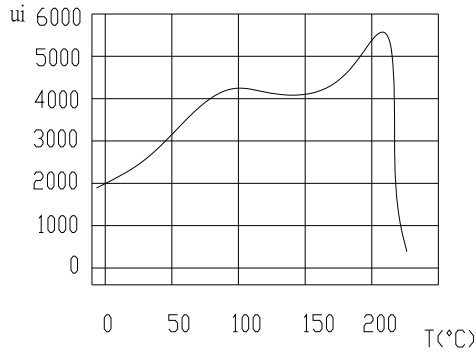


MATERIALS CHARACTERISTICS

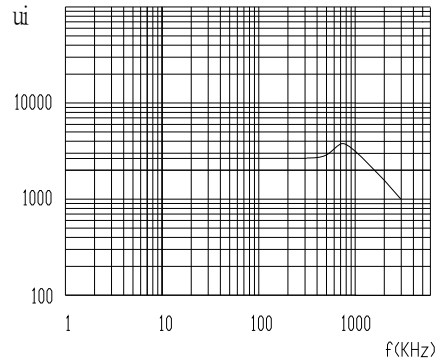
材料特性

特 性 Characteristics		单位 Unit	HP40	HP44	HB5K	PA7K	PA10K	PA15K
			R2K3D	R2K4D	R5KB	R7K	R10K	R15K
使用频率范围 f Operation frequency range		MHz	≤0.3	≤0.3	≤0.2	≤0.2	≤0.1	≤0.1
初始磁导率 μ_i Initial permeability			2300 ±25%	2400 ±25%	5000 ±25%	7500 ±25%	10000 ±25%	15000 ±25%
饱和磁通密度 B_s Saturation flux density	25℃	mT	510	510	500	400	400	360
	100℃	mT	390	390	370			
剩磁 B_r Remanence	25℃	mT	95	110	120	90	90	90
	100℃	mT	55	60	96			
矫顽力 H_c Coercivity	25℃	A/m	14. 3	13	16	6	5	4. 5
	100℃	A/m	8. 8	6. 5				
比损耗系数 $\tan\delta/\mu_i$ Relative loss factor		$\times 10^{-6}$	4. 0	3. 9	20	7 10 KHz	6 10 KHz	10 10 KHz
初始磁导率比温度系数 du/μ_i Relative temperature coefficient		$\times 10^{-6}$	0-3	0-3	0-2	0-1.8	0-1.8	-0.5-2
居里温度 T_c Curie temperature		℃	215	215	170	130	120	100
比减落系数 D_F Disaccommodation factor		$\times 10^{-6}$	2	2	3	3	2	
功耗 P_{CV} Power loss	100KHz 200 mT	25℃	KW/m ³	600	600			
		60℃	KW/m ³	450	420			
		100℃	KW/m ³	410	340			
		120℃	KW/m ³	500	410			
	200KHz 100 mT	25℃	KW/m ³	370	350			
		60℃	KW/m ³	260	210			
		100℃	KW/m ³	210	160			
		120℃	KW/m ³	320	230			
	300KHz 100 mT	25℃	KW/m ³		580			
		60℃	KW/m ³		400			
		100℃	KW/m ³		350			
		120℃	KW/m ³		430			
电阻率 ρ Electrical resistivity		$\Omega\cdot m$	6.5	6.5	1.0	0.2	0.15	0.15
密度 d Density		g/cm ³	4.8	4.8	4.8	4.85	4.9	4.9

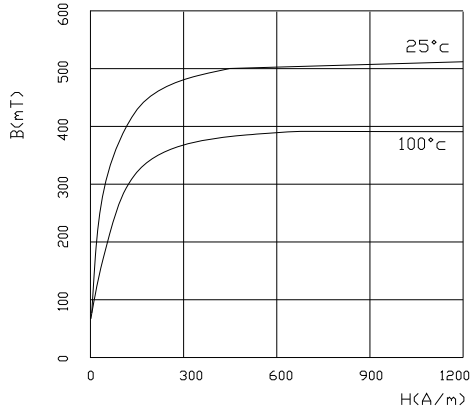
初始磁导率的温度特性曲线
Initial Permeability v.s. Temperature



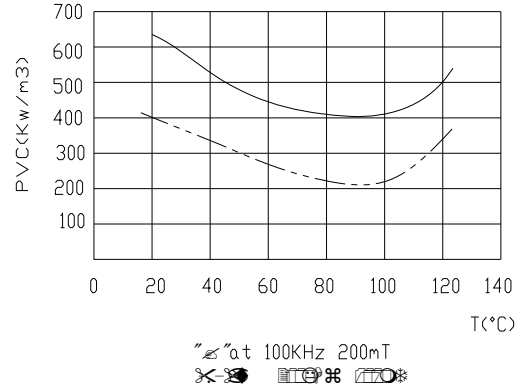
初始磁导率的频率特性曲线
Initial Permeability v.s. Frequency



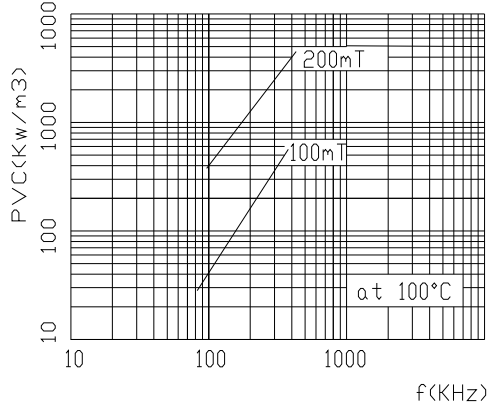
B-H 磁化特性曲线
B-H Loop(at 25°C 100°C)



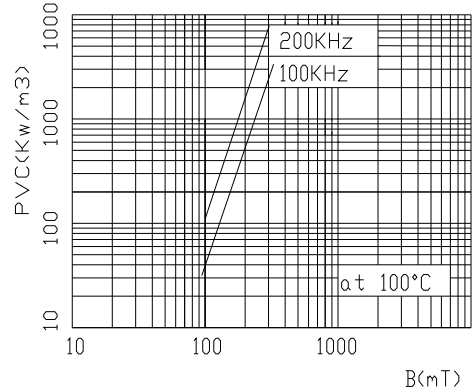
功率损耗的温度特性曲线
Power Loss v.s. Temperature



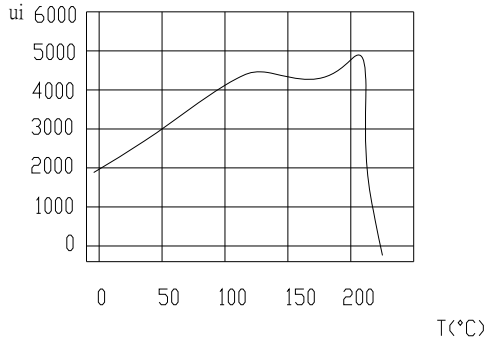
功率损耗的频率特性曲线
Power Loss v.s. Frequency



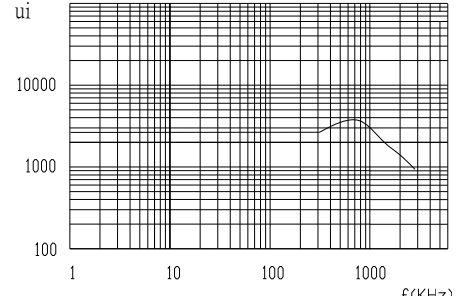
功率损耗的磁通密度特性曲线
Power Loss v.s. Frequency



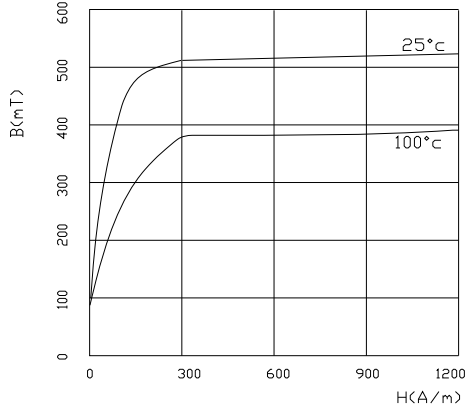
初始磁导率的温度特性曲线
Initial Permeability v.s. Temperature



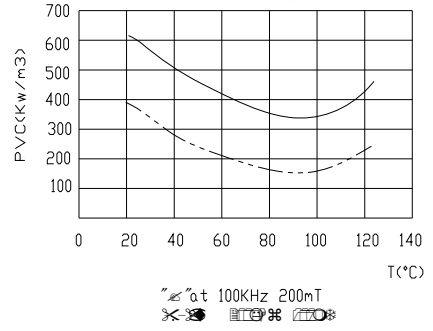
初始磁导率的频率特性曲线
Initial Permeability v.s. Frequency



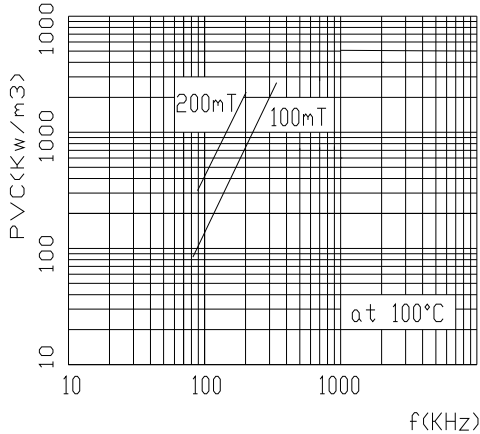
B-H 磁化特性曲线
B-H Loop(at 25°C 100°C)



功率损耗的温度特性曲线
Power Loss v.s. Temperature



功率损耗的频率特性曲线
Power Loss v.s. Frequency



功率损耗的磁通密度特性曲线
Power Loss v.s. Frequency

