

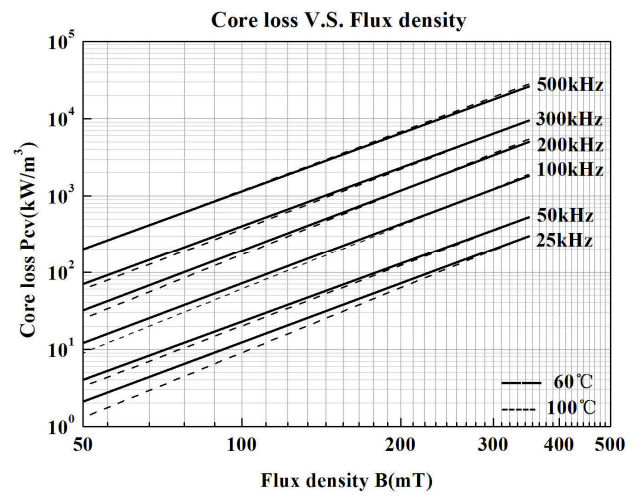
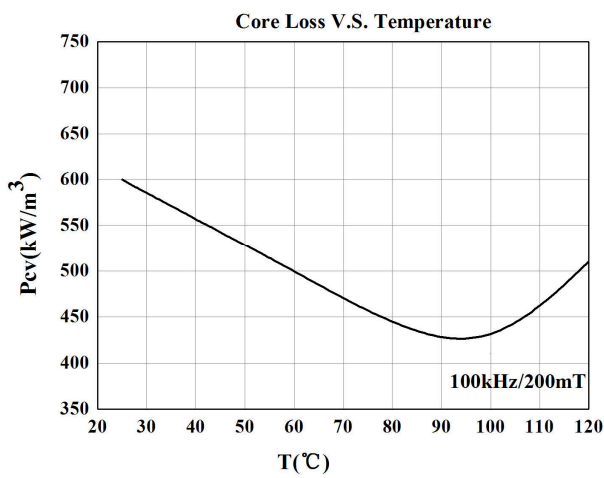
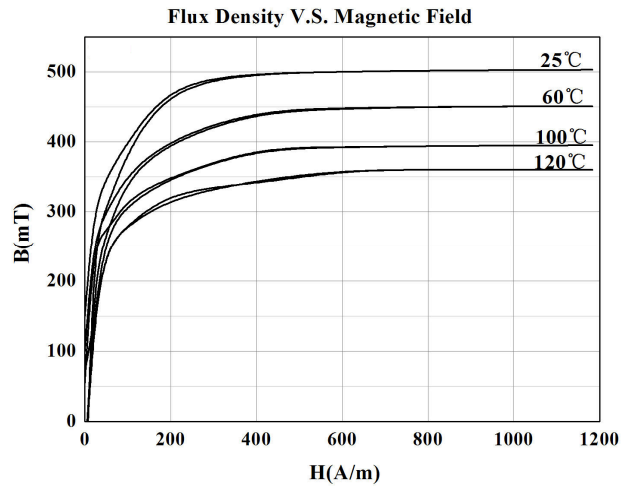
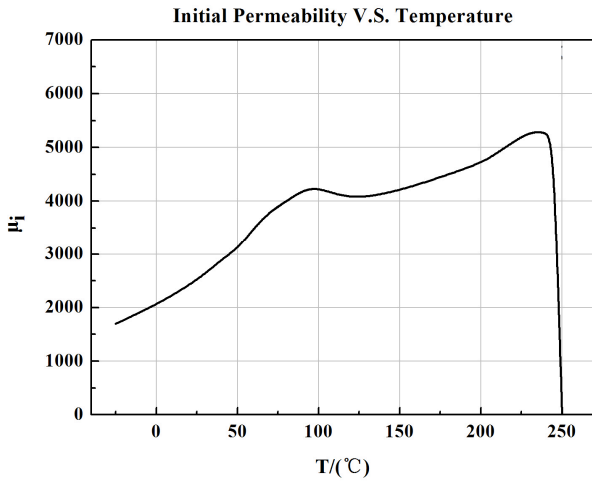
## Power Material characteristics

Material		Unit	P3	P44	P47	P5	P51	P53	P95	P96	
Initial permeability(±25%)			2300	2400	2400	1400	1200	900	3300	3000	
Saturation flux density (Bs)	25°C	mT	510	510	530	470	500	500	530	540	
	100°C		390	410	420	380	420	400	410	450	
Residual magnetic flux density (Br)	25°C	mT	95	110	180	140	140	140	85	90	
	100°C		55	60	60	100	100	100	60	60	
Coercive force(Hc)	25°C	A/m	14	13	13	36.5	36.5	36.5	10	10	
Power loss (Pcv)	100KHz 200mT	25°C	kW/m <sup>3</sup>	600	600	550				350	360
		60°C	kW/m <sup>3</sup>	450	400	350					
		80°C	kW/m <sup>3</sup>							270	
		100°C	kW/m <sup>3</sup>	410	300	250				290	300
		120°C	kW/m <sup>3</sup>	510	400	360				350	360
	500KHz 50mT	100°C	kW/m <sup>3</sup>				80				
	1MHz 30mT	100°C	kW/m <sup>3</sup>					150			
	1MHz 50mT	100°C	kW/m <sup>3</sup>								
	3MHz 10mT	100°C	kW/m <sup>3</sup>						260		
	3MHz 30mT	100°C	kW/m <sup>3</sup>								
Resistivity ( ρ )		Ω•m	6.5	7	4	10	10	10	6	6	
Curie temperature ( Tc)		°C	215	215	250	240	220	240	215	250	
Density ( d)		kg/m <sup>3</sup>	4.8x10 <sup>3</sup>	4.8x10 <sup>3</sup>	4.9x10 <sup>3</sup>	4.7x10 <sup>3</sup>	4.7x10 <sup>3</sup>	4.7x10 <sup>3</sup>	4.9x10 <sup>3</sup>	4.9x10 <sup>3</sup>	

The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

## P3 Material characteristics

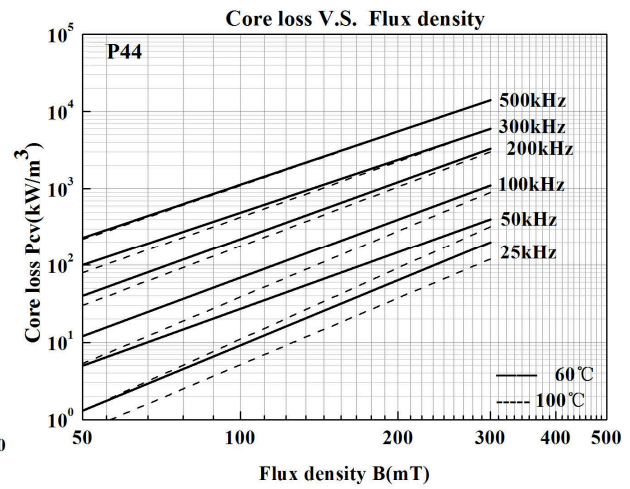
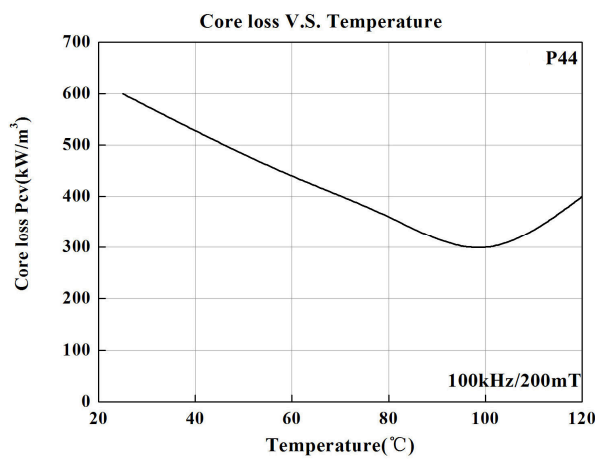
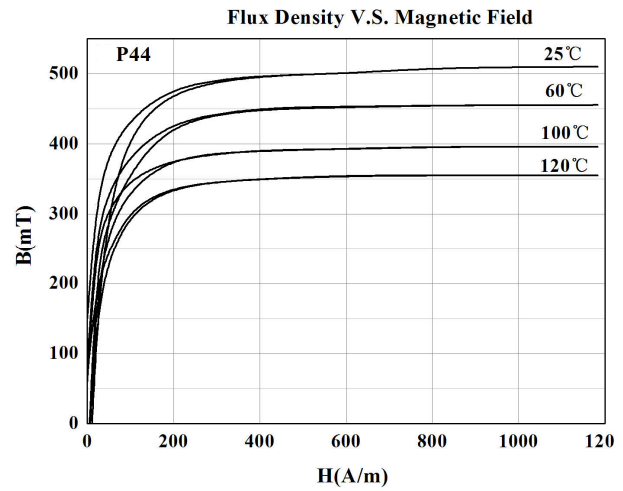
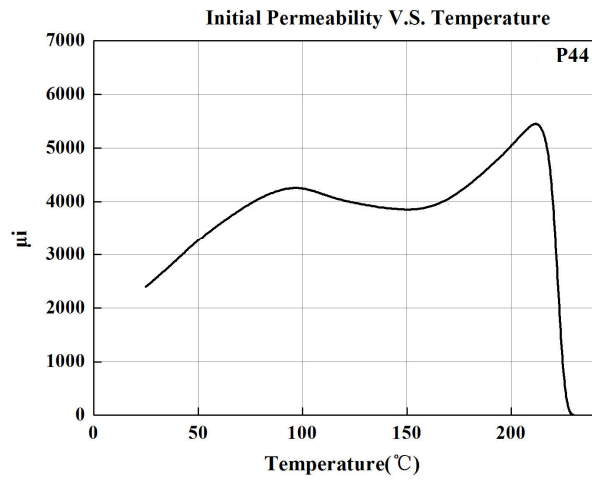
Symbol	Unit	Conditions		Value
$\mu_i$ Initial permeability ( $\pm 25\%$ )		25°C		2300
$B_s$ Saturation flux density	mT	60 Hz 1194 A/m	25°C	510
			100°C	390
$B_r$ Residual magnetic flux density	mT	25°C		95
		100°C		55
$H_c$ Coercive force	A/m	25°C		14
$P_{cv}$ Power loss	kW/m <sup>3</sup>	100 kHz 200 mT	25°C	600
			60°C	450
			100°C	410
			120°C	510
$T_c$ Curie temperature	°C			215
Resistivity	$\Omega \cdot m$	25°C		6.5
$d$ Density	kg/m <sup>3</sup>	25°C		$4.8 \times 10^3$



The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

## P44 Material characteristics

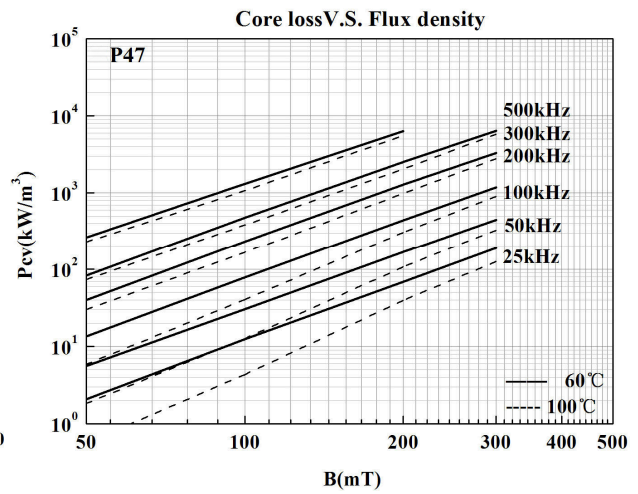
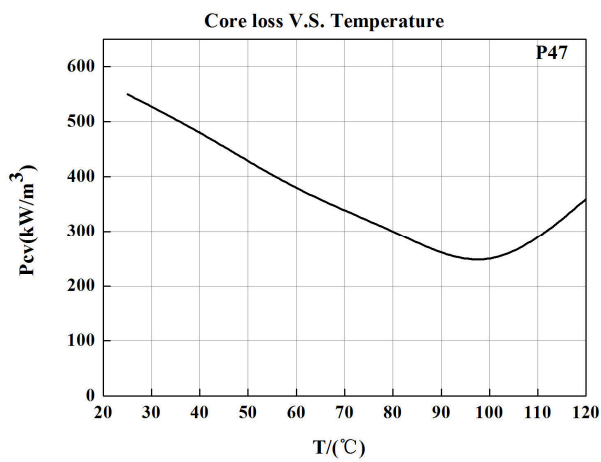
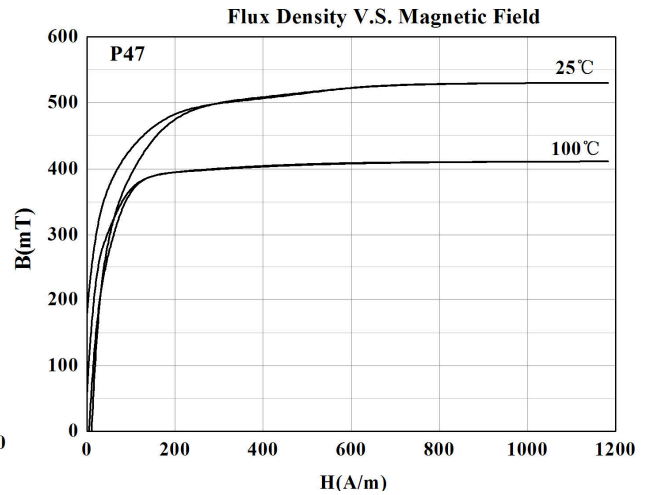
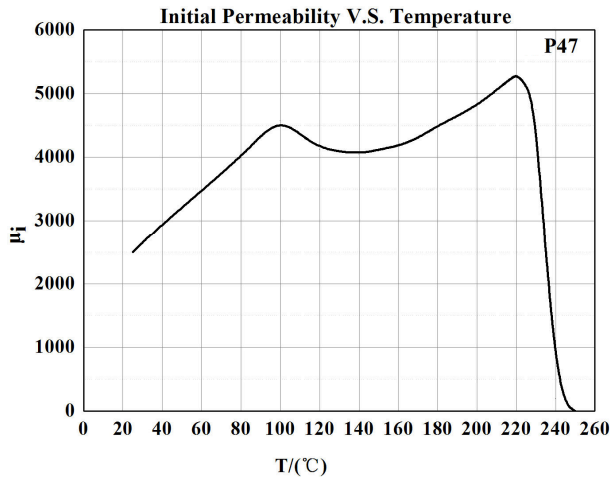
Symbol	Unit	Conditions		Value
$\mu_i$ Initial permeability ( $\pm 25\%$ )		10 kHz $B \leq 0.25\text{mT}$	25°C	2400
$B_s$ Saturation flux density	mT	60 Hz 1194 A/m	25°C	510
			100°C	410
$B_r$ Residual magnetic flux density	mT		25°C	110
			100°C	60
$H_c$ Coercive force	A/m		25°C	13
$P_{cv}$ Power loss	$\text{kW/m}^3$	100 kHz 200 mT	25°C	600
			60°C	400
			100°C	300
			120°C	400
$T_c$ Curie temperature	°C			215
Resistivity	$\Omega \cdot \text{m}$		25°C	7
$d$ Density	$\text{kg/m}^3$		25°C	$4.8 \times 10^3$



The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

## P47 Material characteristics

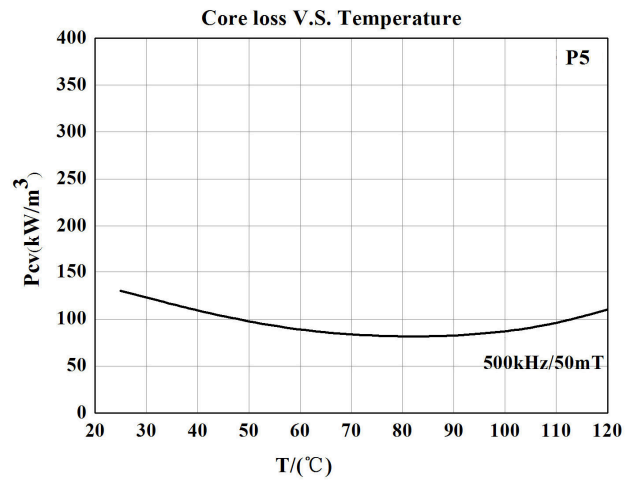
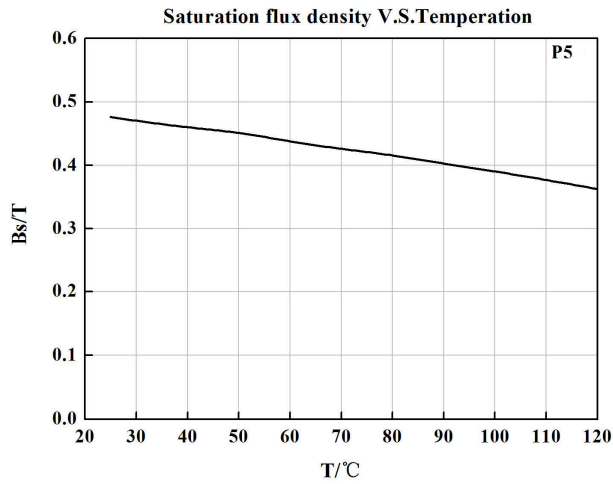
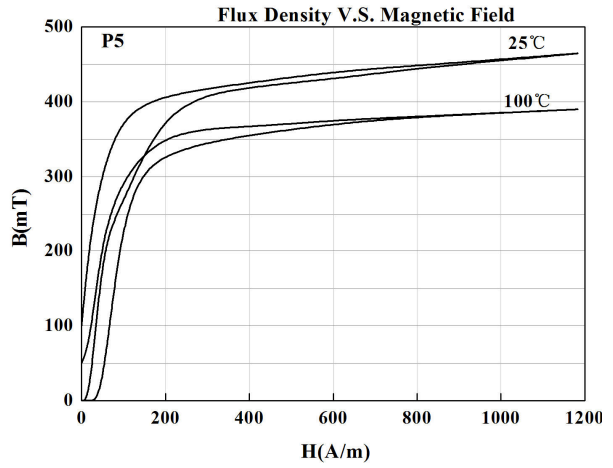
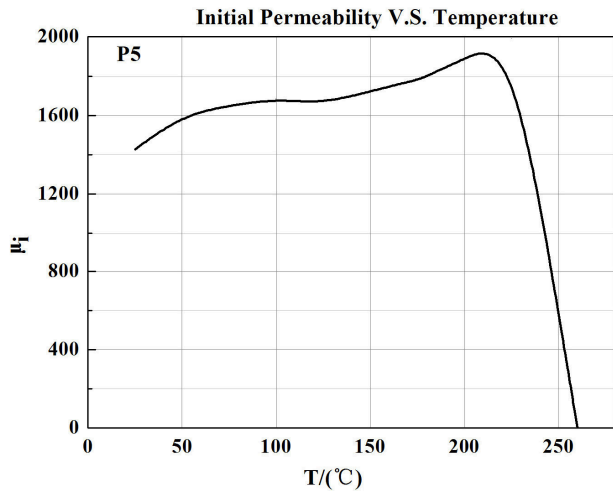
Symbol	Unit	Conditions		Value
$\mu_i$ Initial permeability ( $\pm 25\%$ )		25°C		2400
$B_s$ Saturation flux density	mT	60 Hz 1194 A/m	25°C	530
			100°C	420
$B_r$ Residual magnetic flux density	mT	25°C		180
		100°C		60
$H_c$ Coercive force	A/m	25°C		13
$P_{cv}$ Power loss	$\text{kW/m}^3$	100kHz 200mT	25°C	550
			60°C	350
			100°C	250
			120°C	360
$T_c$ Curie temperature	°C			250
Resistivity	$\Omega \cdot \text{m}$	25°C		4
$d$ Density	$\text{kg/m}^3$	25°C		$4.9 \times 10^3$



The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

## P5 Material characteristics

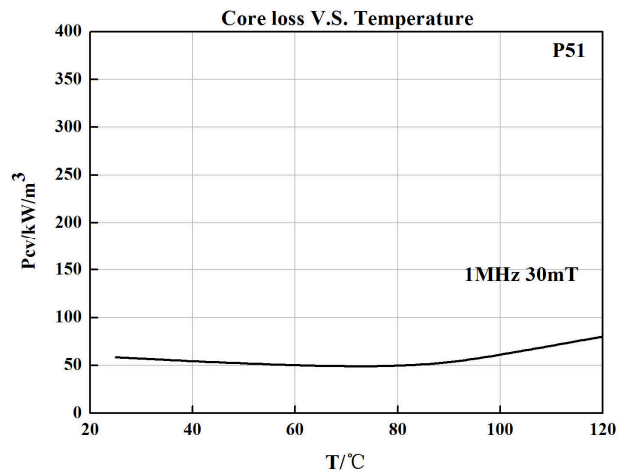
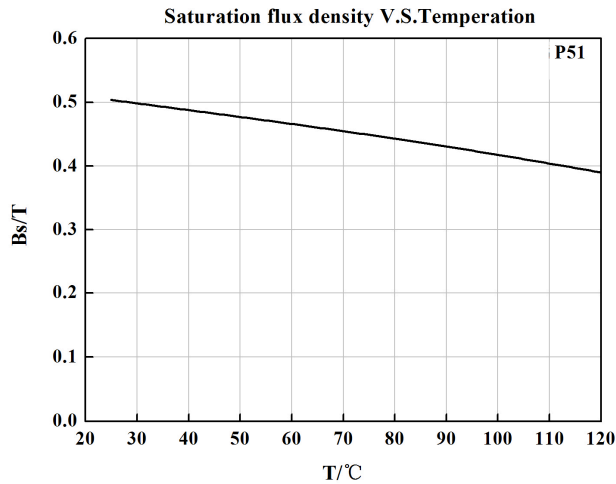
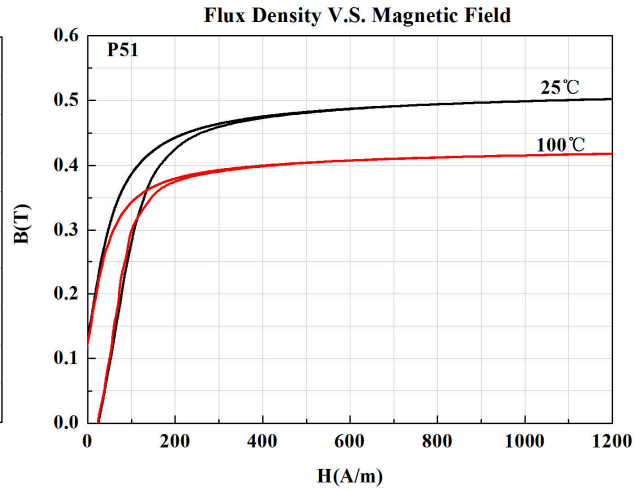
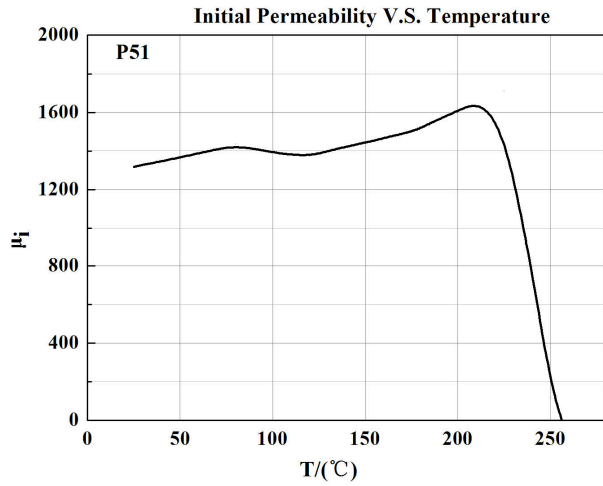
Symbol	Unit	Conditions		Value
$\mu_i$ Initial permeability ( $\pm 25\%$ )		25°C		1400
$B_s$ Saturation flux density	mT	60 Hz 1194 A/m	25°C	470
			100°C	380
$B_r$ Residual magnetic flux density	mT	25°C		140
		100°C		100
$H_c$ Coercive force	A/m	25°C		36.5
$P_{cv}$ Power loss	kW/m <sup>3</sup>	500 kHz 50 mT	25°C	130
			100°C	80
$T_c$ Curie temperature	°C			240
Resistivity	$\Omega \cdot m$	25°C		10
$d$ Density	kg/m <sup>3</sup>	25°C		$4.7 \times 10^3$



The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

## P51 Material characteristics

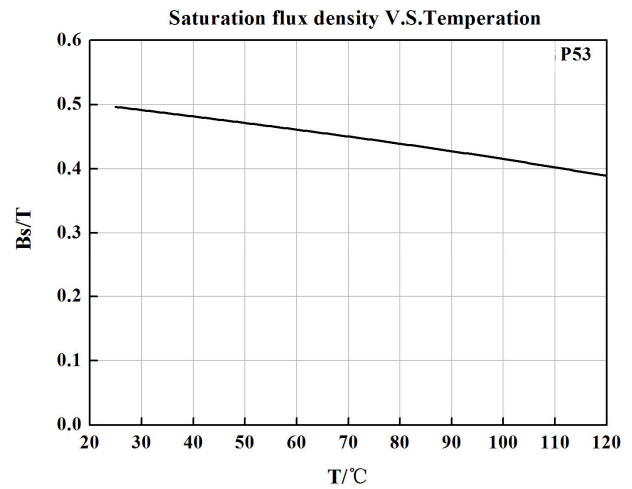
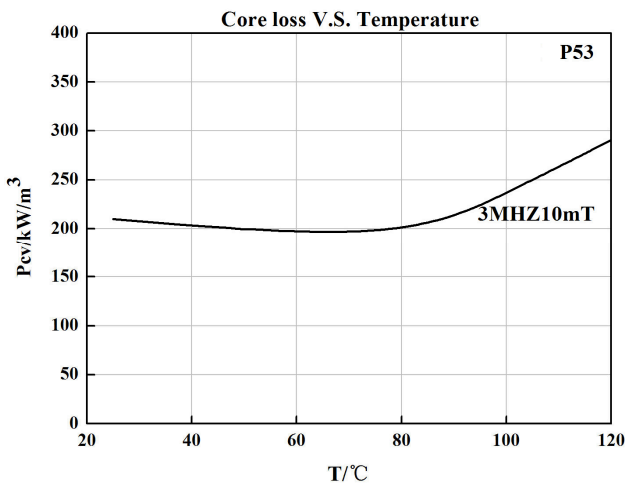
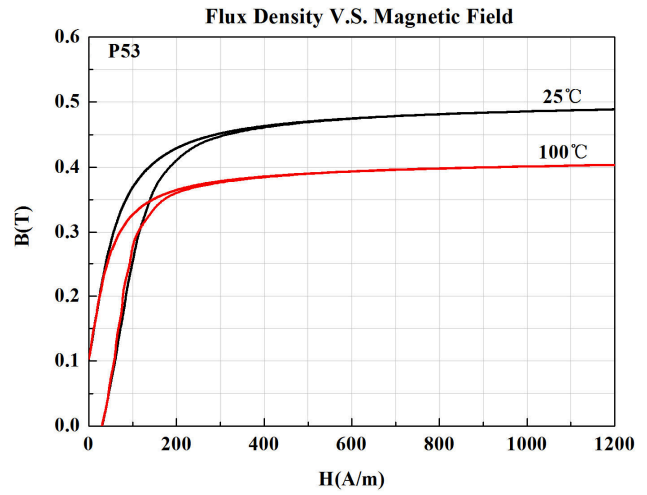
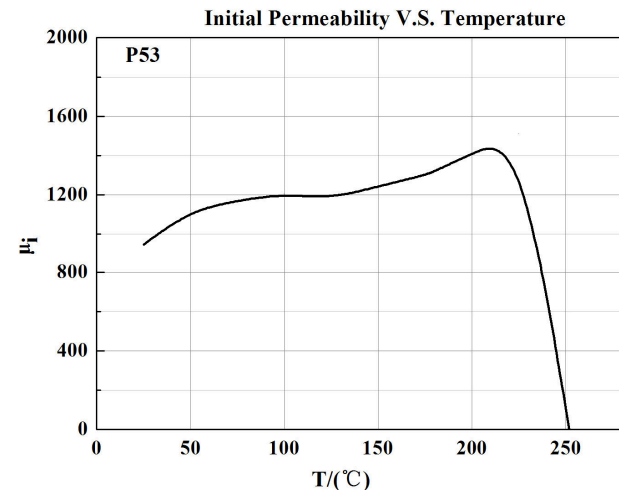
Symbol	Unit	Conditions		Value
$\mu_i$ Initial permeability ( $\pm 25\%$ )		25°C		1200
$B_s$ Saturation flux density	mT	60 Hz 1194 A/m	25°C	500
			100°C	420
$B_r$ Residual magnetic flux density	mT	25°C		140
		100°C		100
$H_c$ Coercive force	A/m	25°C		36.5
$P_{cv}$ Power loss	$\text{kW/m}^3$	1MHz 30mT	100°C	150
$T_c$ Curie temperature	°C			220
Resistivity	$\Omega \cdot \text{m}$	25°C		10
$d$ Density	$\text{kg/m}^3$	25°C		$4.7 \times 10^3$



The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

## P53 Material characteristics

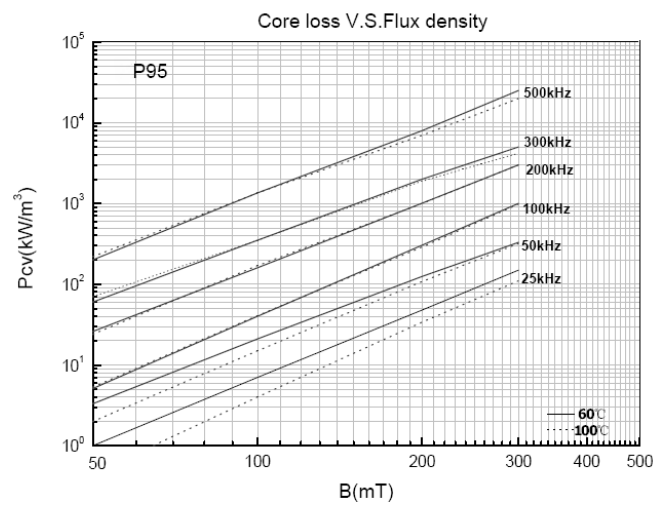
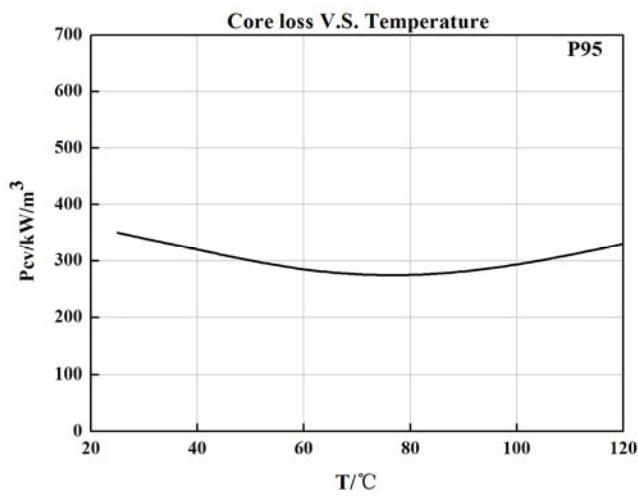
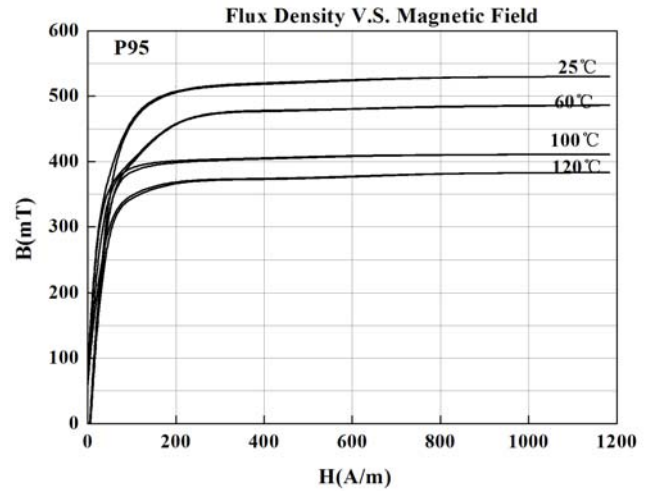
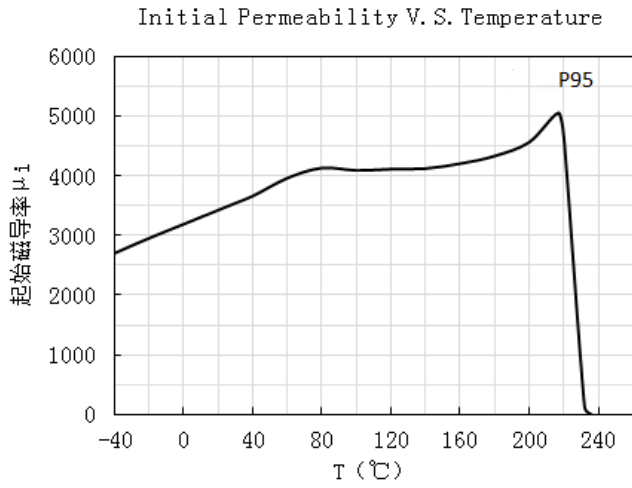
Symbol	Unit	Conditions		Value
$\mu_i$ Initial permeability ( $\pm 25\%$ )		25°C		900
$B_s$ Saturation flux density	mT	60 Hz 1194 A/m	25°C	500
			100°C	400
$B_r$ Residual magnetic flux density	mT	25°C		140
		100°C		100
$H_c$ Coercive force	A/m	25°C		36.5
$P_{cv}$ Power loss	kW/m <sup>3</sup>	3MHz 10mT	100°C	260
$T_c$ Curie temperature	°C			240
Resistivity	$\Omega \cdot m$	25°C		10
$d$ Density	kg/m <sup>3</sup>	25°C		$4.7 \times 10^3$



The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

## P95 Material characteristics

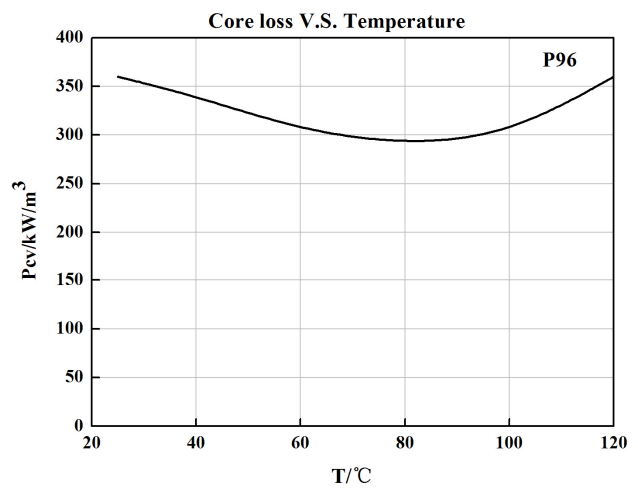
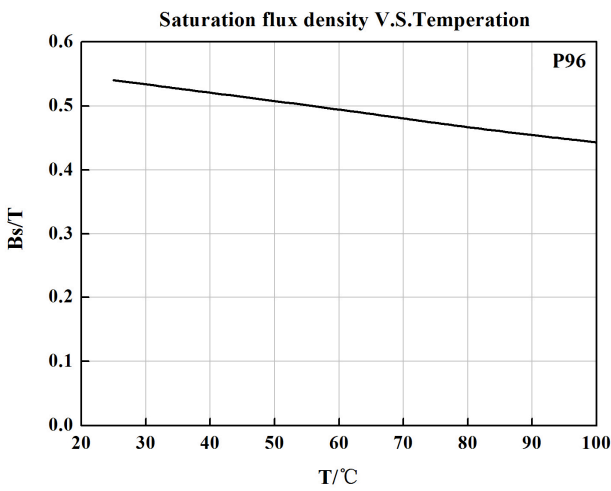
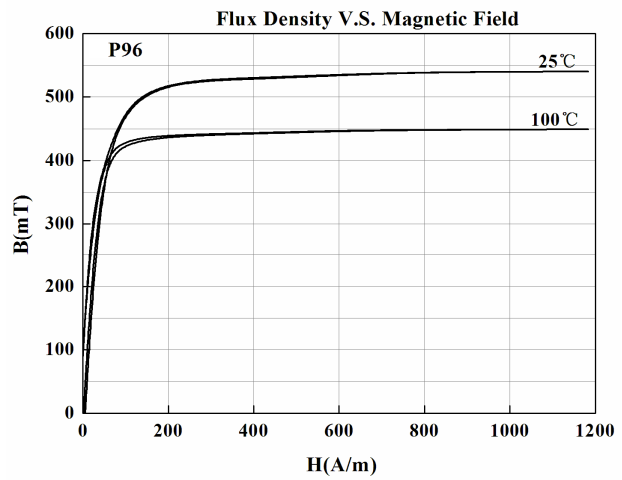
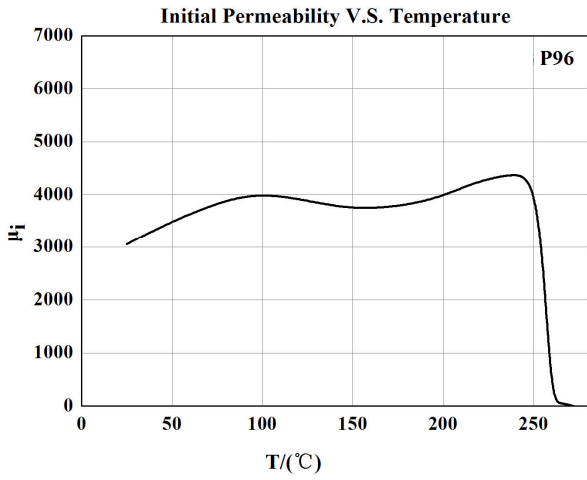
Symbol	Unit	Conditions		Value
$\mu_i$ Initial permeability ( $\pm 25\%$ )		25°C		3300
$B_s$ Saturation flux density	mT	60 Hz 1194 A/m	25°C	530
			100°C	410
$B_r$ Residual magnetic flux density	mT	25°C		85
		100°C		60
$H_c$ Coercive force	A/m	25°C		10
$P_{cv}$ Power loss	kW/m <sup>3</sup>	100 kHz 200 mT	25°C	350
			80°C	270
			100°C	290
			120°C	350
$T_c$ Curie temperature	°C			215
Resistivity	$\Omega \cdot m$	25°C		6
$d$ Density	kg/m <sup>3</sup>	25°C		$4.9 \times 10^3$



The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.

## P96 Material characteristics

Symbol	Unit	Conditions		Value
$\mu_i$ Initial permeability ( $\pm 25\%$ )		25°C		3000
$B_s$ Saturation flux density	mT	60 Hz 1194 A/m	25°C	540
			100°C	450
$B_r$ Residual magnetic flux density	mT	25°C		90
		100°C		60
$H_c$ Coercive force	A/m	25°C		10
$P_{cv}$ Power loss	kW/m <sup>3</sup>	100 kHz 200 mT	25°C	360
			100°C	300
			120°C	360
$T_c$ Curie temperature	°C			250
Resistivity	$\Omega \cdot m$	25°C		6
$d$ Density	kg/m <sup>3</sup>	25°C		$4.9 \times 10^3$



The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis