

# Material Characteristics

## Power Material

Material			PL-9	
Initial permeability	$\mu_{iac}$			3000 $\pm$ 25%
Core loss (100kHz, 200mT)	P <sub>cv</sub>	kW/m <sup>3</sup>	25°C	450
			80°C	350
			100°C	390
			120°C	450
Saturation flux density (1194A/m)	B <sub>s</sub>	mT	25°C	500
			100°C	390
Remanence	Br	mT	25°C	80
Coercivity	H <sub>c</sub>	A/m	25°C	10
Curie temperature	T <sub>c</sub>	°C		> 220
Density	d	kg/m <sup>3</sup>		4.85 $\times$ 10 <sup>3</sup>
Resistivity	$\rho$	$\Omega \cdot m$	25°C	> 7.0

Note : 1) Typical values  
 2) The values were obtained with toroidal cores(30X8-20H) at room temperature unless indicated otherwise

