

# Material Characteristics

## Power Material for High Frequency Applications

Material			PL-F1	
Initial permeability	$\mu_{iac}$			1400 ±25%
Core loss (500kHz, 50mT)	P <sub>cv</sub>	kW/m <sup>3</sup>	25°C	150
			80°C	80
			100°C	90
			120°C	110
Saturation flux density (1194A/m)	B <sub>s</sub>	mT	25°C	490
			100°C	400
Remanence	Br	mT	25°C	200
Coercivity	H <sub>c</sub>	A/m	25°C	35
Curie temperature	T <sub>c</sub>	°C		> 240
Density	d	kg/m <sup>3</sup>		4.70×10 <sup>3</sup>
Resistivity	$\rho$	$\Omega \cdot m$	25°C	> 15

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

