

# Material Characteristics

## High Permeability Material

Material		SM-70S		
Initial permeability	$\mu_{iac}$			7500 ±25%
Relative loss factor	$\tan\delta/\mu_{iac}$	$\times 10^{-6}$	f:100kHz	< 15
Saturation flux density (1194A/m)	Bs	mT	25°C	430
Remanence	Br	mT	25°C	50
Coercivity	Hc	A/m	25°C	4
Relative temp. factor	$\alpha\mu r$	$\times 10^{-6}/^\circ\text{C}$	20~60°C	-0.1~1.0
Hysterisis material constant	$\eta_B$	$\times 10^{-6}/\text{mT}$	10kHz, 25°C	< 0.8
Curie temperature	Tc	°C		> 130
Density	d	kg/m <sup>3</sup>		4.90×10 <sup>3</sup>
Resistivity	$\rho$	$\Omega\cdot\text{m}$	25°C	> 0.5

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

