

High Q Material

Material		SM-43T		
Initial permeability	μ_{iac}			4300 ±25%
Relative loss factor	$\tan\delta/\mu_{iac}$	$\times 10^{-6}$	f:100kHz	< 5
Saturation flux density (1194A/m)	Bs	mT	25°C	450
Remanence	Br	mT	25°C	40
Coercivity	Hc	A/m	25°C	5
Relative temp. factor	$\alpha\mu$	$\times 10^{-6}/^{\circ}\text{C}$	-30~20°C	-0.5~0.5
			0~20°C	0~1.0
			20~70°C	0~1.0
Hysterisis material constant	η_B	$\times 10^{-6}/\text{mT}$	10kHz, 25°C	< 0.8
Curie temperature	Tc	°C		> 160
Density	d	kg/m ³		4.80×10 ³
Resistivity	ρ	$\Omega\cdot\text{m}$	25°C	> 5

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

