

Material Characteristics

High Q Material

Material			SM-8T	
Initial permeability	μ_{iac}			800 ±20%
Relative loss factor	$\tan\delta/\mu_{iac}$	$\times 10^{-6}$	f:500kHz	< 25
Saturation flux density (1194A/m)	B_s	mT	25°C	480
Remanence	B_r	mT	25°C	200
Coercivity	H_c	A/m	25°C	40
Relative temp. factor	$\alpha\mu$	$\times 10^{-6}/^\circ\text{C}$	-30~20°C	-0.5~0.5
			0~20°C	
			20~70°C	1.0~2.0
Hysterisis material constant	η_B	$\times 10^{-6}/\text{mT}$	10kHz, 25°C	< 0.3
Curie temperature	T_c	°C		> 250
Density	d	kg/m ³		4.70×10^3
Resistivity	ρ	$\Omega \cdot \text{m}$	25°C	> 3

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

