N850

Material characteristics

Initial permeability: 850 ± 25%

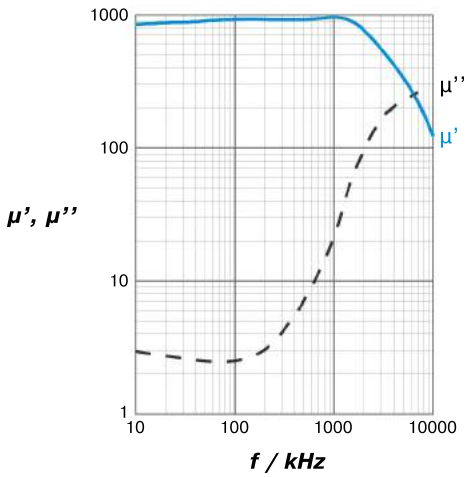
	symbol	at	value	unit
Initial permeability	μ_i		850 ±25%	
Flux density	B_s	10 kHz, 25°C 100 kHz, 25°C	350 330	mT (1600A/m)
Remanence	B_r	10 kHz, 25°C	200	mT
Coercive force	H_c	10 kHz, 25°C	20	A/m
Relative loss factor	$\tan\delta/\mu_i$	10 kHz	16	$\times 10^{-6}$
Curie temperature	T_c	10 kHz	>120	°C
Resistivity	ρ	DC, 25°C	$>10^5$	Ωm
Density	γ		4.8	g/cm^3

Preferred core shapes

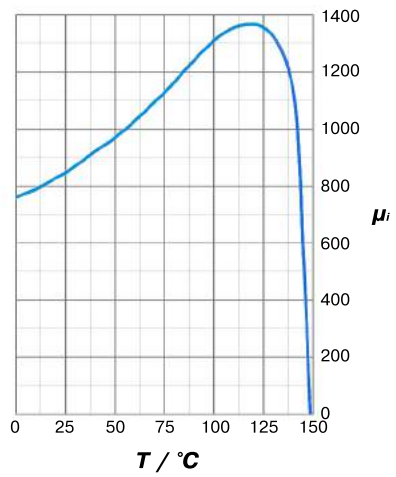
- rings
- tubes
- rods
- disks
- split cores

Material curves

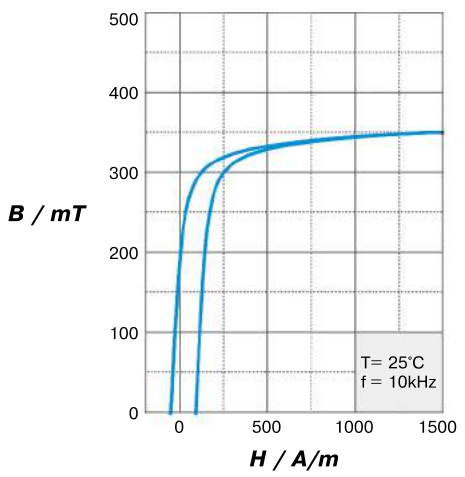
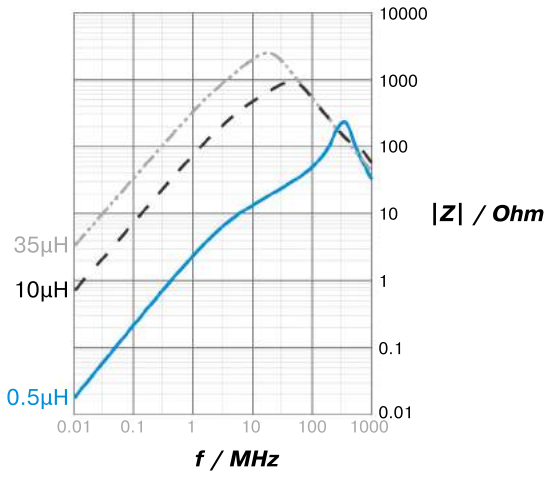
Complex permeability vs. frequency



Initial permeability vs. temperature



Hysteresis curve



Impedance vs. frequency