NIFER

N650

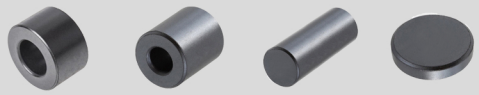
NI-ZN TYPE

MATERIAL CHARACTERISTICS

	symbol	at	value	unit
Initial permeability	μ_i		650 ±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	150	mT
Coercive force	H_c	10 kHz, 25°C	35	A/m
Relative loss factor	$\tan\delta/\mu_i$	10 kHz	20	$\times 10^{-6}$
Curie temperature	T_c	10 kHz	>140	°C
Resistivity	ρ	DC, 25°C	$>10^5$	Ωm
Density	γ		4.9	g/cm^3

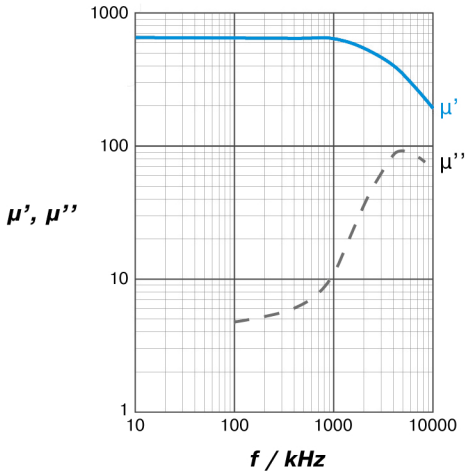
INITIAL PERMEABILITY: 650 ±25%

PREFERRED CORE SHAPES

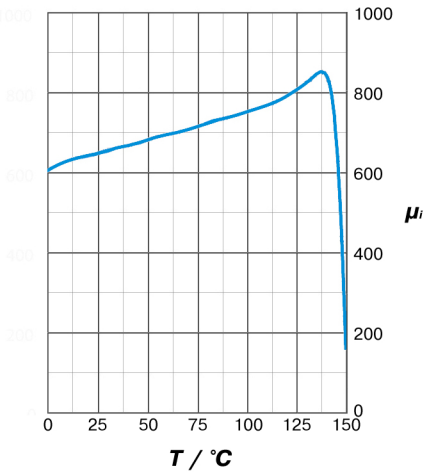


MATERIAL CURVES

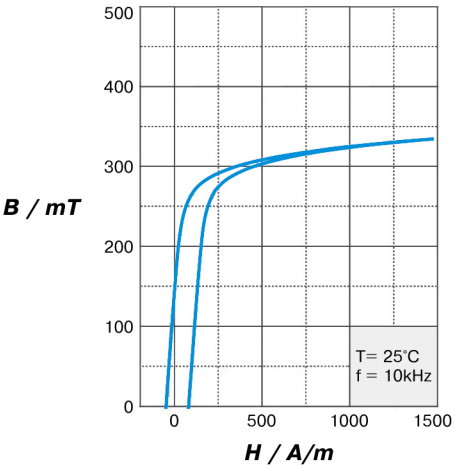
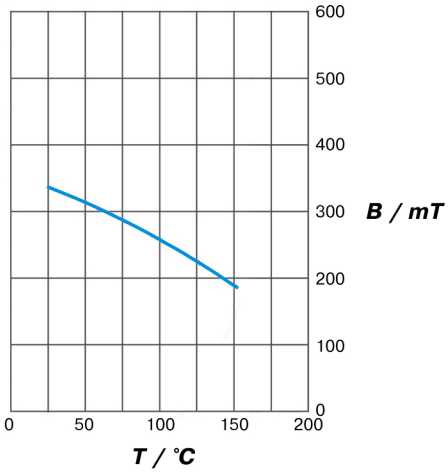
Complex permeability vs. frequency



Initial permeability vs. temperature



Hysteresis curve



Flux density vs. temperature