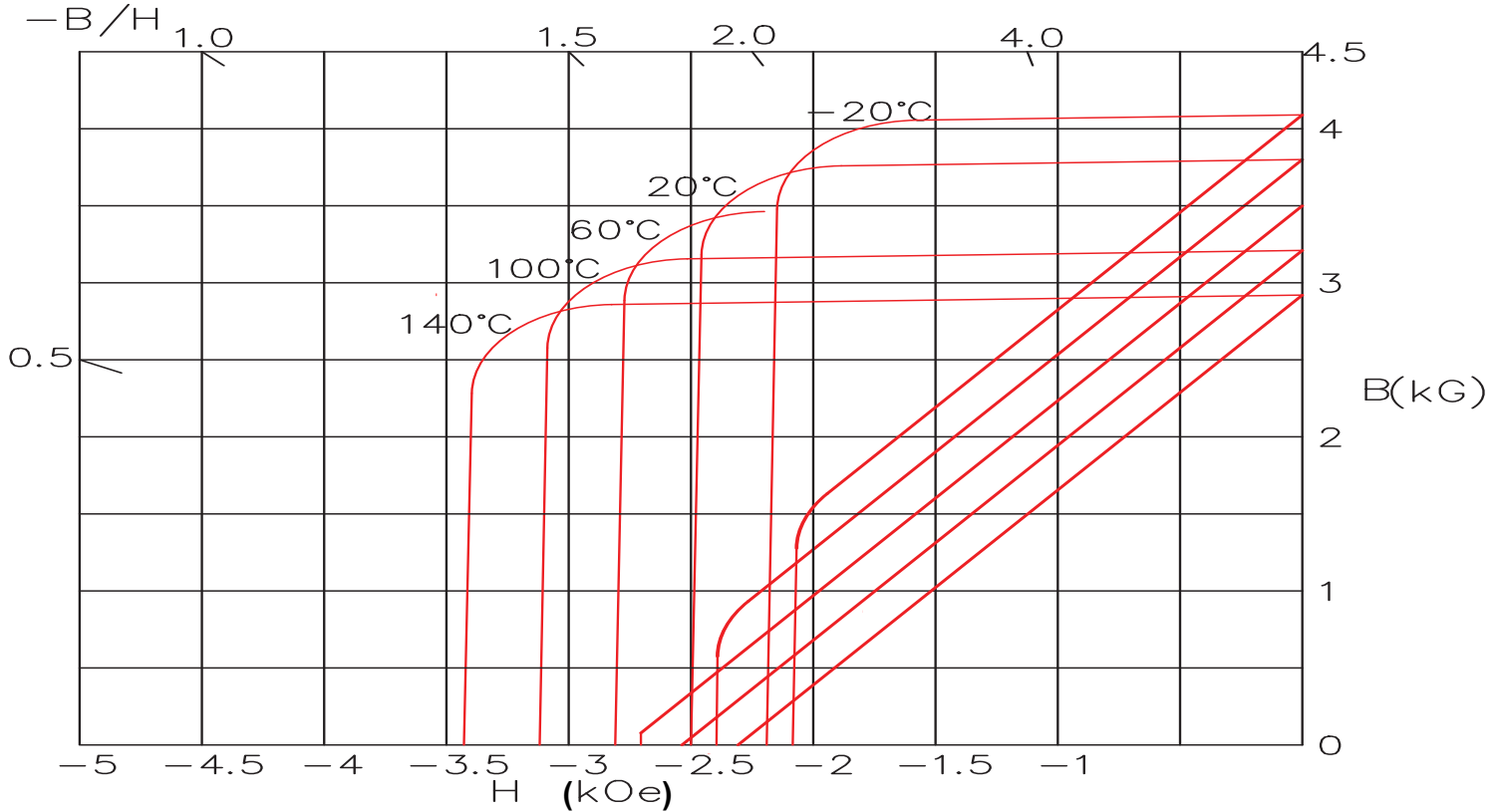


TDA MAGNETICS

Ceramic Grade C0502



Magnetic Properties		Units	min.	nominal
Br, Residual Induction		Gauss	3,420	3,800
		Tesla	0.342	0.38
Hc, Coercivity		Oersteds	2,160	2,400
		kA/m	171.9	191.
Hci, Intrinsic Coercivity		Oersteds	2,500	2,600
		kA/m	198.9	206.9
BHmax, Maximum Energy Product		MGOe	3.0	3.4
		kJ/m ³	23.9	27.1
Physical Properties		Units	C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)		%/°C		-0.19
of Coercivity, α(Hci)		%/°C		N/A
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °C×10 ⁻⁶	145.0	95.0
Thermal Conductivity		W/(m•K)		N/A
Specific Heat ⁽³⁾		J/(kg•K)		N/A
Max. Recommended Use Temperature		°C		310
Curie Temperature, Tc		°C		450
Flexural Strength		psi		90
		MPa		N/A
Compressive Strength		psi		2.0
		MPa		N/A
Young's Modulus		GPa		25.0
Density		g/cm ³		.18
Hardness, Vickers		Hv		N/A
Electrical Resistivity, ρ		Ω • cmμ		N/A

(1) Coefficients measured between 20 and 200 °C

(2) Between 20 and 200 °C

(3) Between 20 and 150 °C