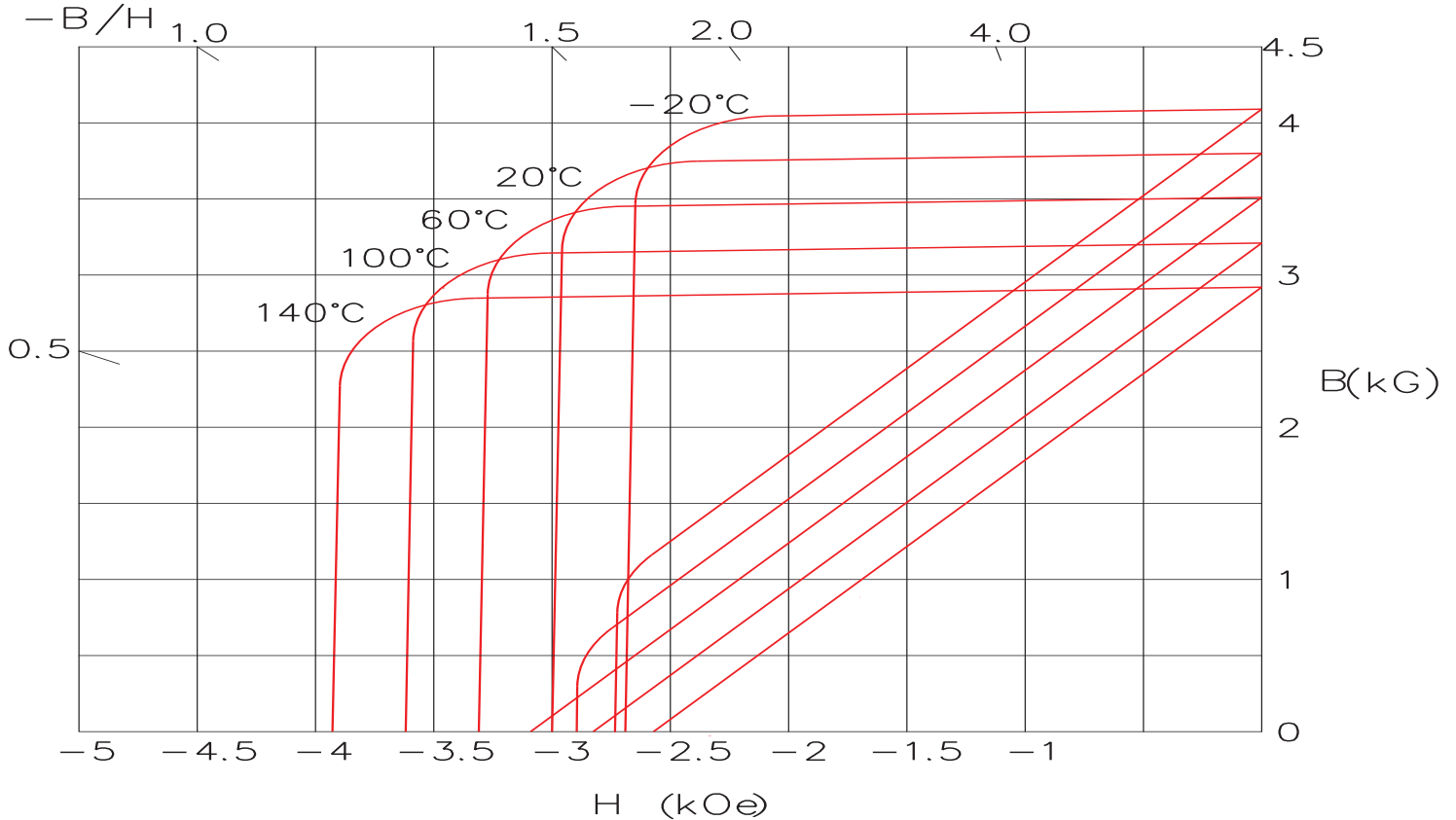


TDA MAGNETICS

Ceramic Grade C0802



Magnetic Properties		Units	min.	nominal
Br, Residual Induction		Gauss	3,700	3,900
		Tesla	0.37	0.39
Hc, Coercivity		Oersteds	2,900	3,200
		kA/m	230.8	254.6
Hci, Intrinsic Coercivity		Oersteds	3,250	3,300
		kA/m	258.6	262.6
BHmax, Maximum Energy Product		MGOe	3.4	3.5
		kJ/m^3	27.1	27.9
Physical Properties		Units	C //	C \perp
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, $\alpha(\text{Br})$		%/ $^{\circ}\text{C}$		-0.19
of Coercivity, $\alpha(\text{Hci})$		%/ $^{\circ}\text{C}$		N/A
Coefficient of Thermal Expansion ⁽²⁾		$\Delta\text{L/L per }^{\circ}\text{C} \times 10^{-6}$	145.0	95.0
Thermal Conductivity		W/(m \cdot K)		N/A
Specific Heat ⁽³⁾		J/(kg \cdot K)		N/A
Max. Recommended Use Temperature		$^{\circ}\text{C}$		310
Curie Temperature, Tc		$^{\circ}\text{C}$		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		$\Omega \cdot \text{cm}\mu$		N/A

(1) Coefficients measured between 20 and 200 $^{\circ}\text{C}$

(2) Between 20 and 200 $^{\circ}\text{C}$

(3) Between 20 and 150 $^{\circ}\text{C}$