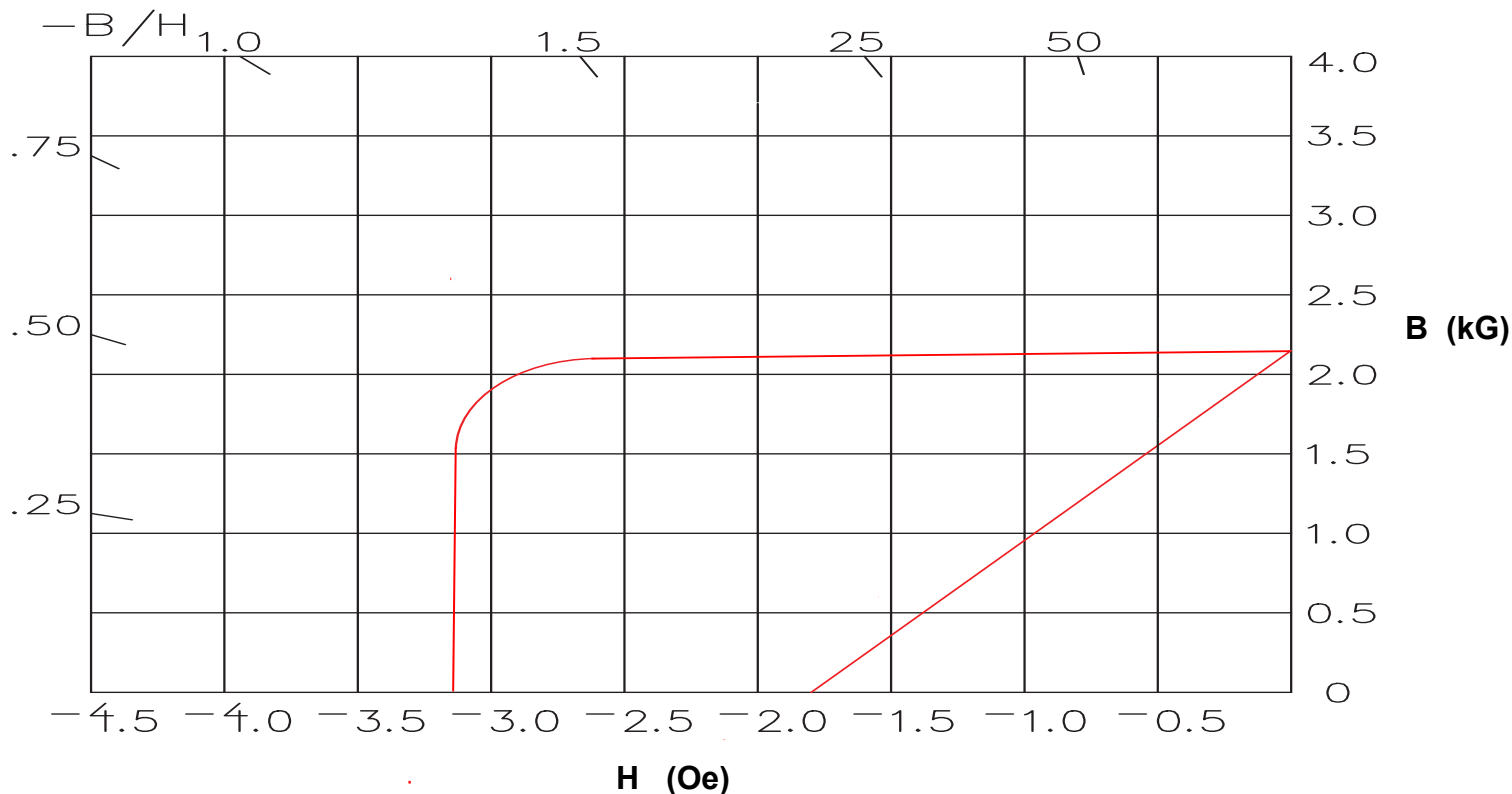


TDA MAGNETICS

Ceramic Grade C0103



Magnetic Properties		Units	min.	nominal
Br, Residual Induction		Gauss	1,935	2,200
		Tesla	0.194	0.22
Hc, Coercivity		Oersteds	1,620	1,900
		kA/m	128.9	151.2
Hci, Intrinsic Coercivity		Oersteds	3,250	3,300
		kA/m	258.6	262.6
BHmax, Maximum Energy Product		MGOe	0.9	1.1
		kJ/m ³	7.2	8.8
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 x 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		120
Curie Temperature, Tc		°C		310
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