



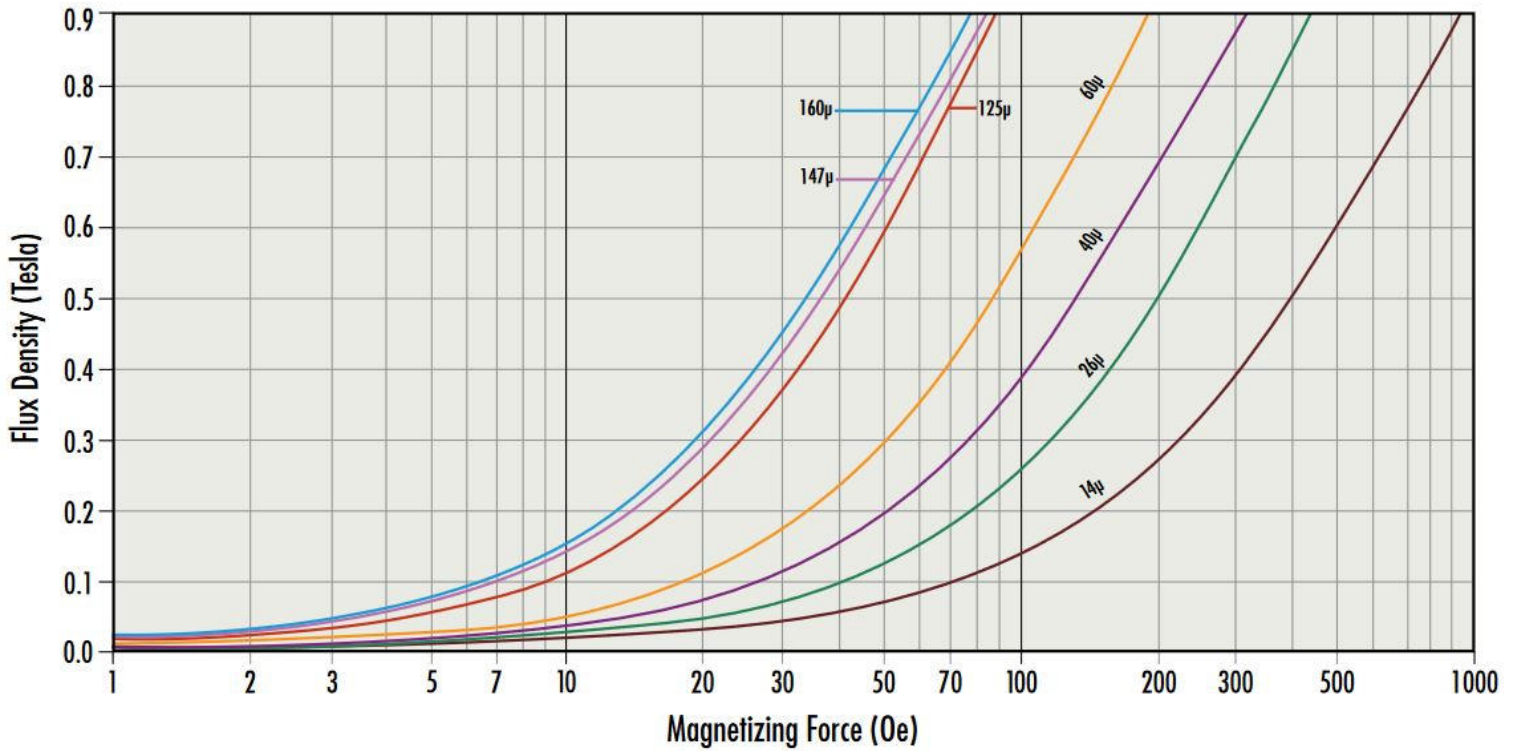
High Flux Material Property Curves

- DC Magnetization Curves
- Core Loss Density Curves
- Permeability versus Temperature Curves
- Permeability versus DC Bias Curves
- Permeability versus Frequency Curves
- Permeability versus AC Flux Curves
- Core Selection Chart

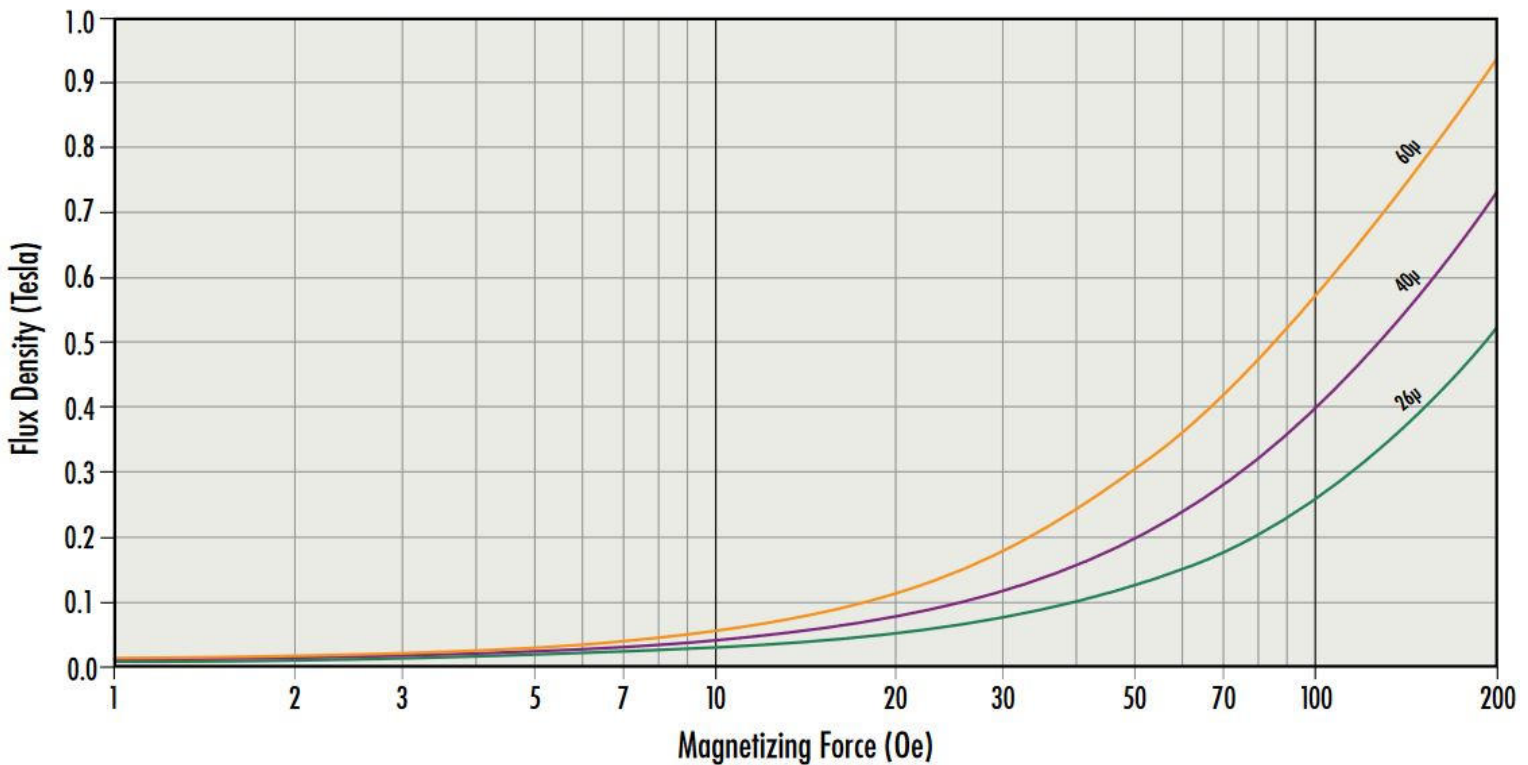
DC Magnetization Curves



High Flux Toroids



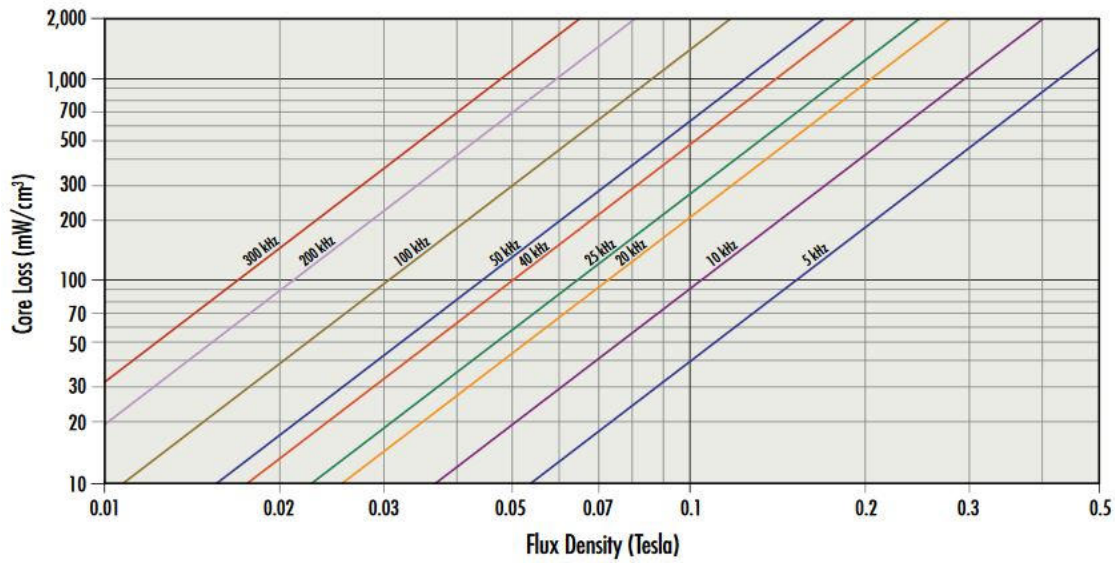
High Flux EQ Cores



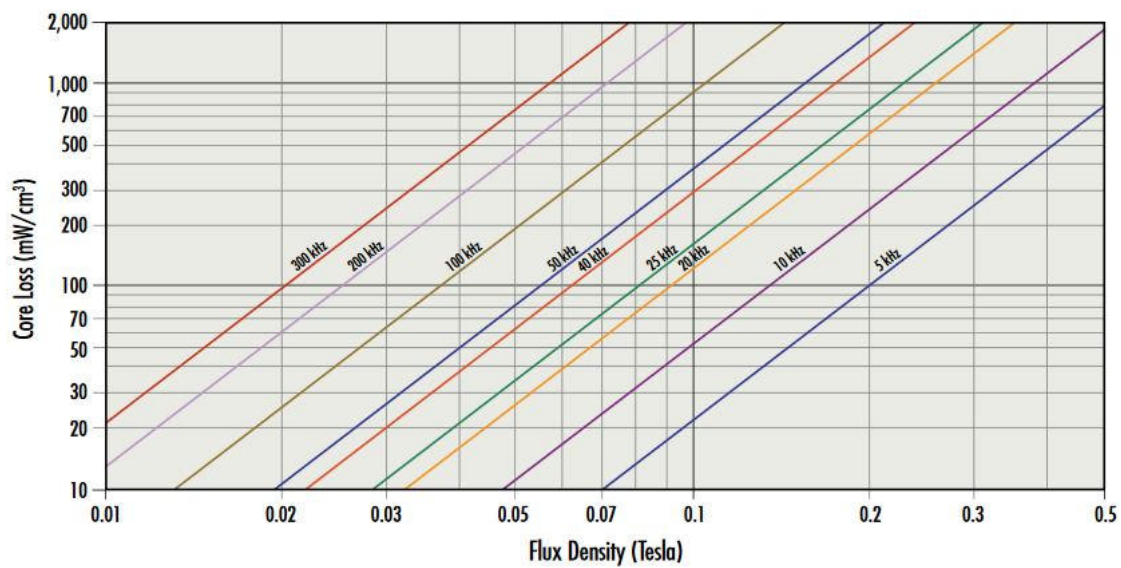
Core Loss Density Curves



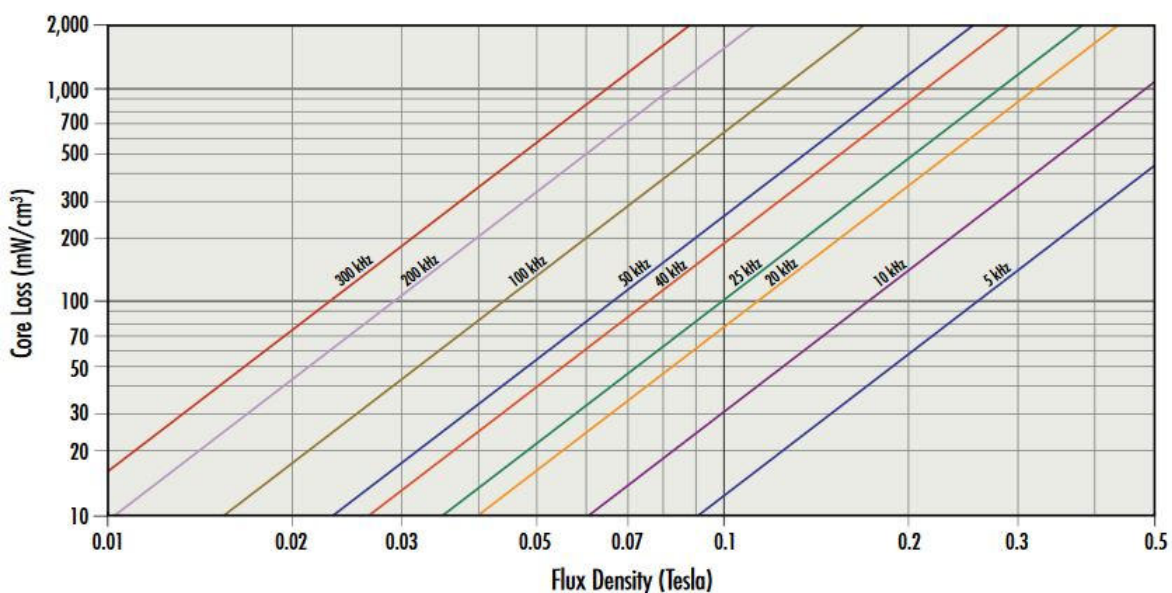
High Flux Toroids 14 μ



High Flux Toroids 26 μ , 40 μ



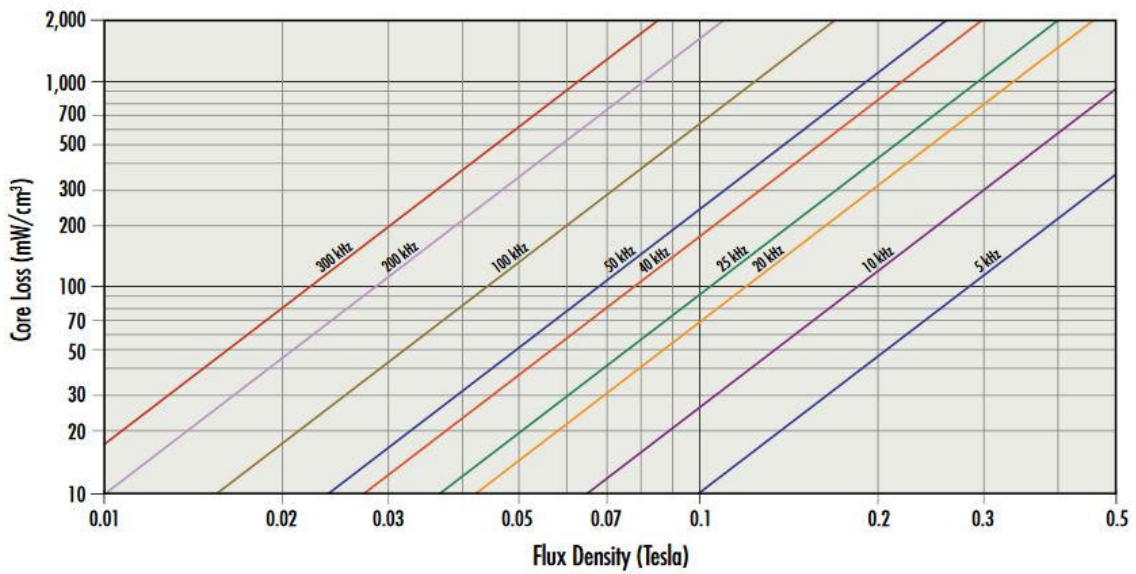
High Flux Toroids 60 μ



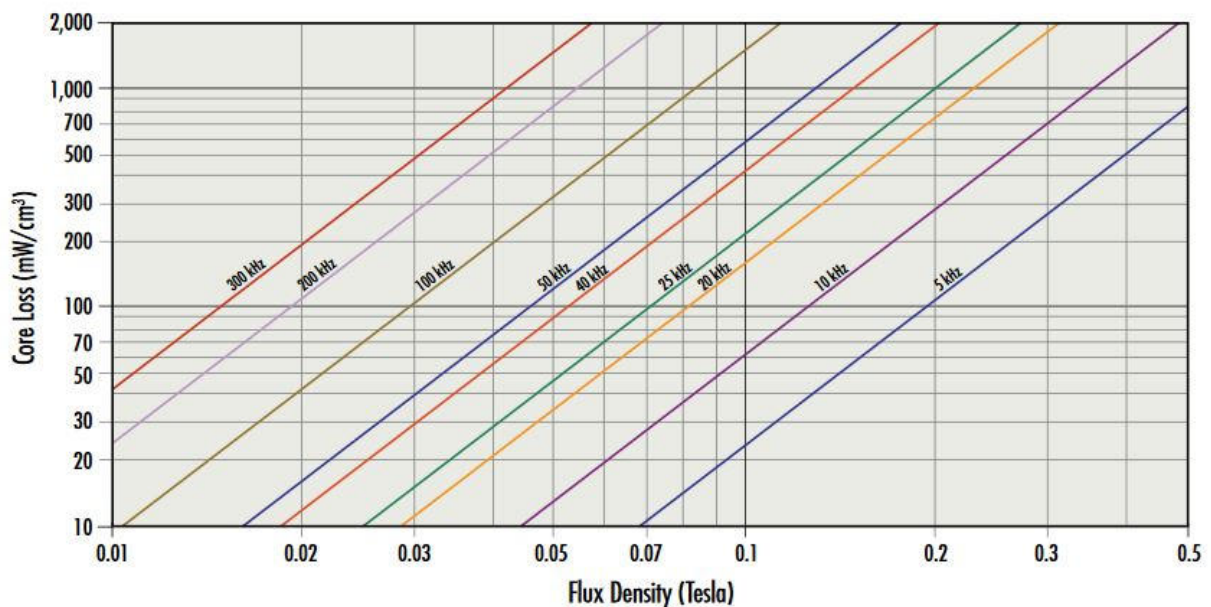
Core Loss Density Curves



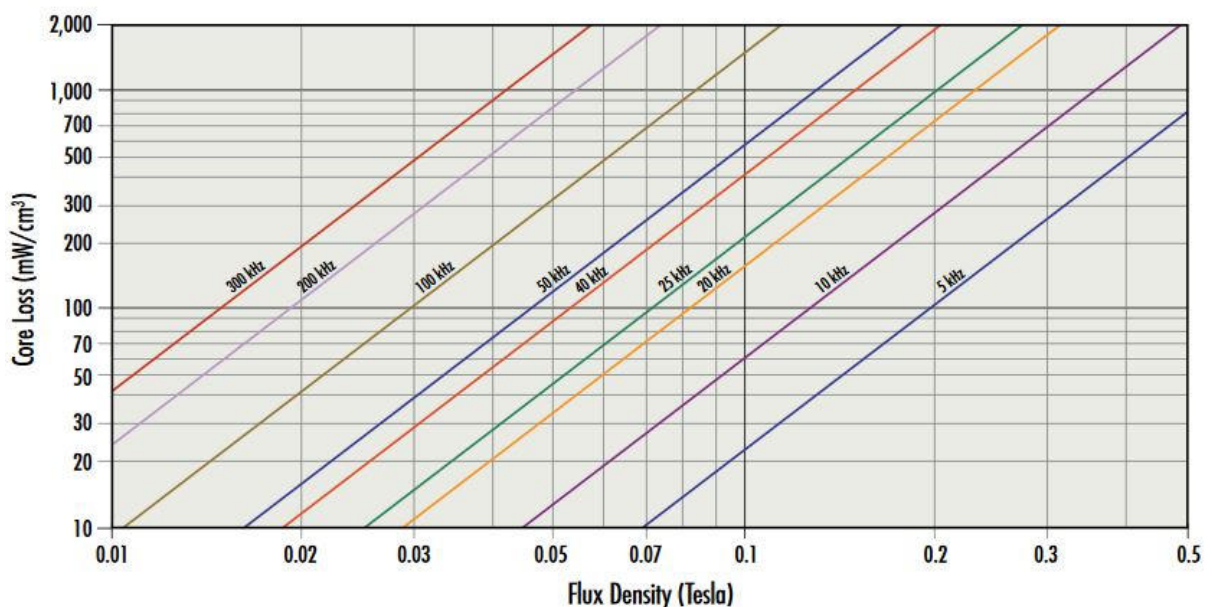
High Flux Toroids 125 μ



High Flux Toroids 147 μ

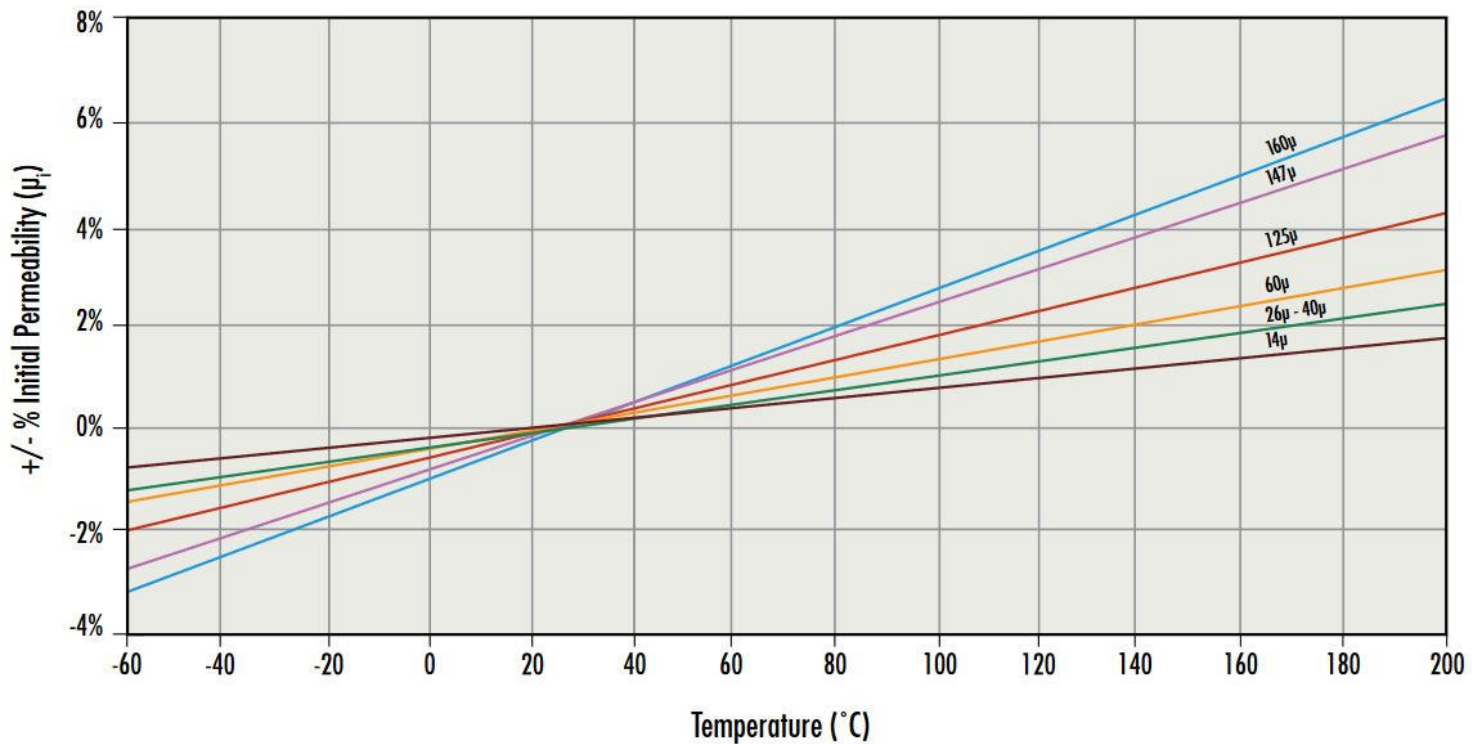


High Flux Toroids 160 μ



Permeability versus Temperature Curves

High Flux



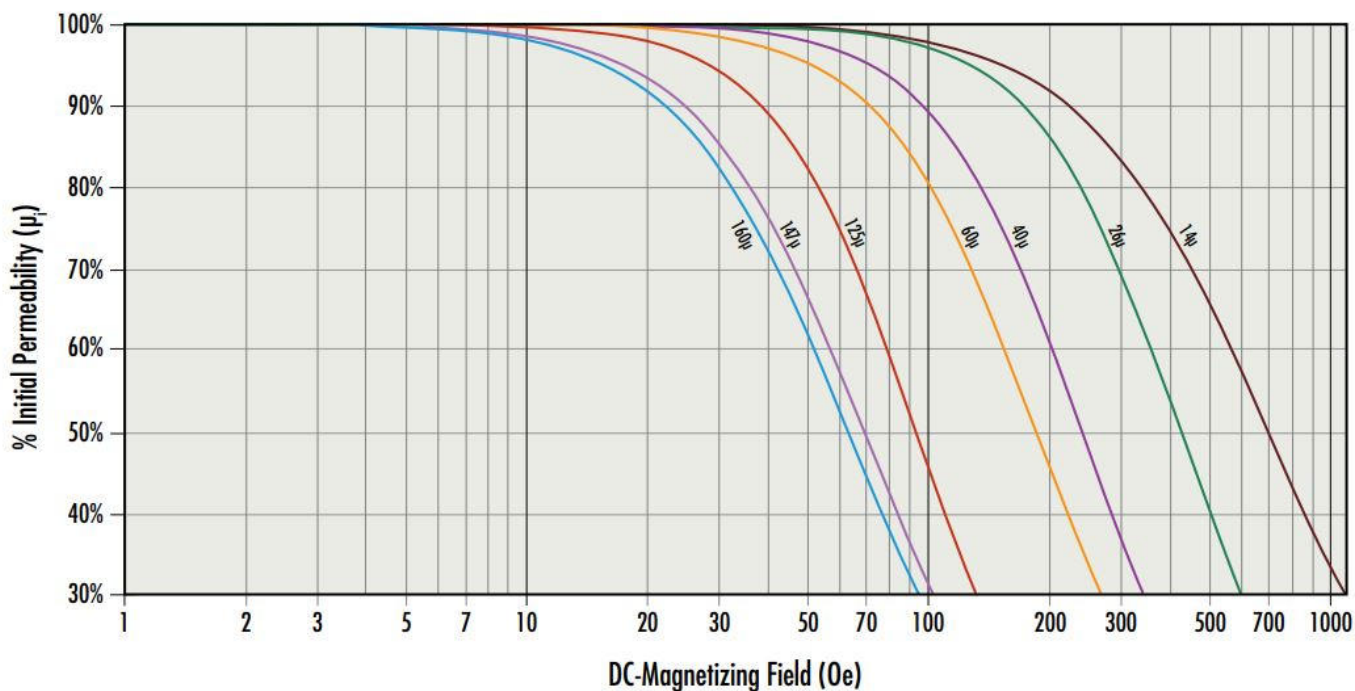
Fit Formula

$$\text{Change compared with } \mu_{25^\circ\text{C}} = \frac{\mu_T - \mu_{25^\circ\text{C}}}{\mu_{25^\circ\text{C}}} = a + bT + cT^2$$

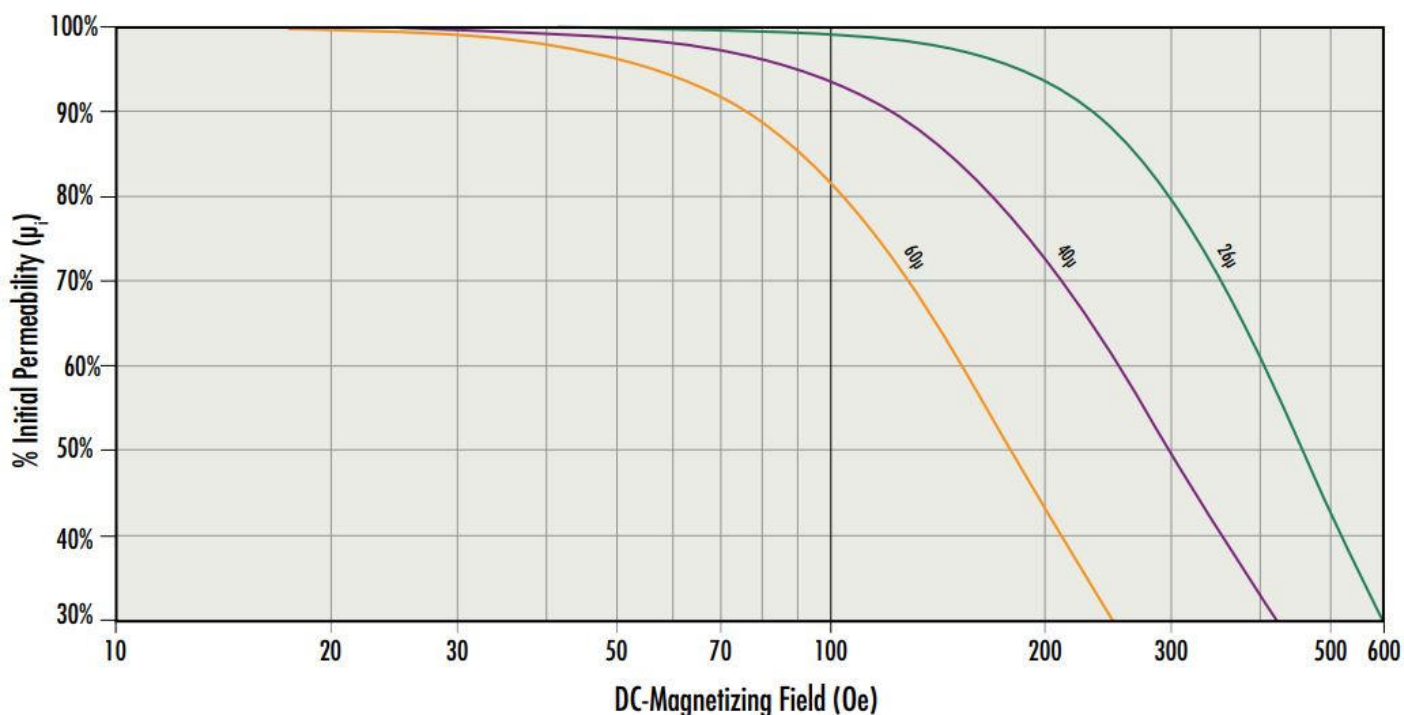
	Perm	a	b	c
High Flux	14μ	-2.500E-03	9.670E-05	5.560E-08
	26μ	-3.300E-03	1.290E-04	3.800E-08
	60μ	-4.400E-03	1.740E-04	4.090E-08
	125μ	-6.000E-03	2.400E-04	3.220E-08
	147μ	-7.900E-03	3.140E-04	7.310E-08
	160μ	-9.200E-03	3.670E-04	1.750E-08

Permeability versus DC Bias Curves

High Flux Toroids



High Flux EQ Cores



Fit Formula

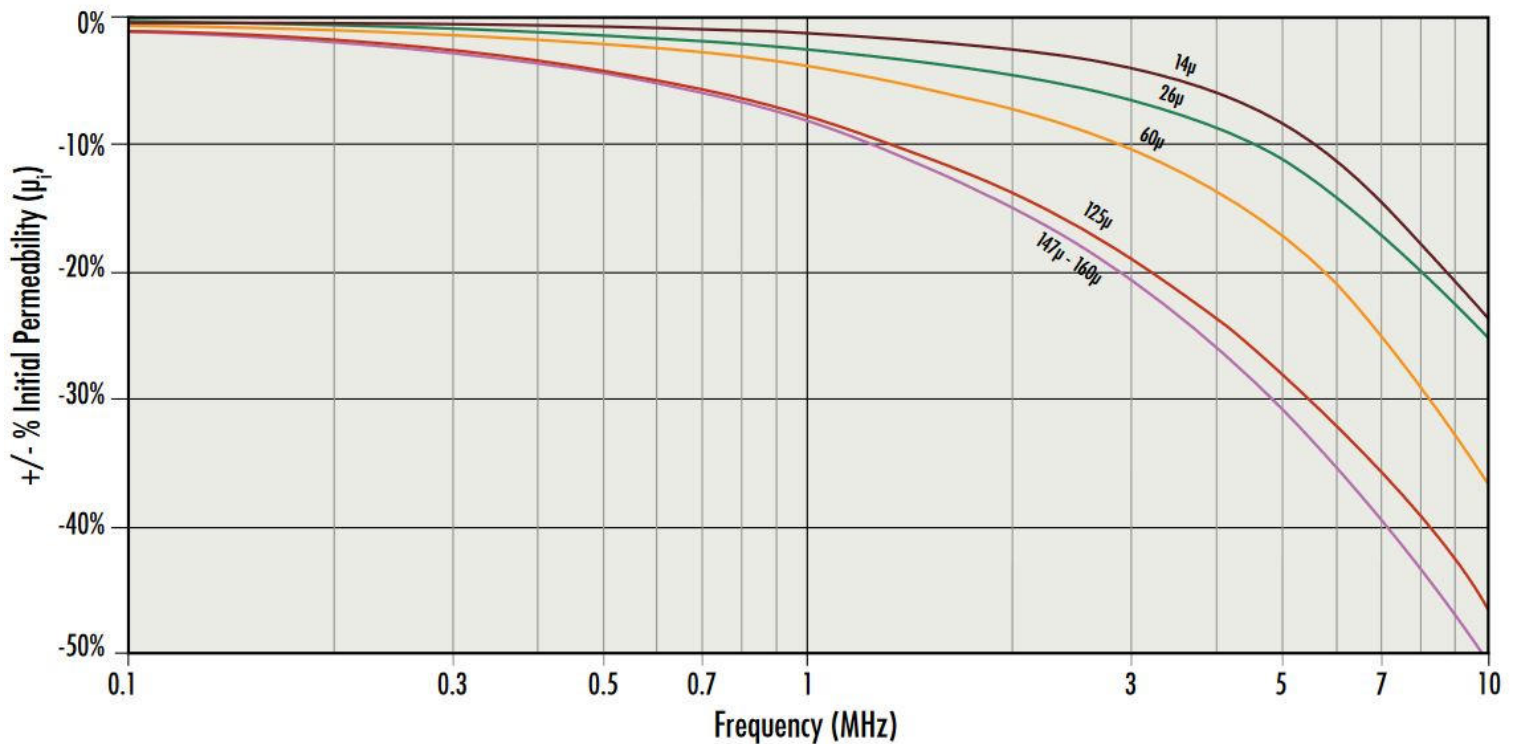
$$\% \text{ initial permeability} = \frac{1}{(a + bH^c)} \quad \text{where H is Oersteds (Oe)}$$

	Perm	a	b	c
High Flux EQ Cores	26 μ	0.01	2.313E-11	3.243
	40 μ	0.01	8.995E-09	2.441
	60 μ	0.01	1.583E-08	2.572

	Perm	a	b	c
High Flux Toroids	14 μ	0.01	3.389E-08	1.923
	26 μ	0.01	4.205E-09	2.426
	40 μ	0.01	1.841E-08	2.409
	60 μ	0.01	6.413E-08	2.291
	125 μ	0.01	1.403E-07	2.465
	147 μ	0.01	1.207E-06	2.131
	160 μ	0.01	1.704E-06	2.094

Permeability versus Frequency Curves

High Flux



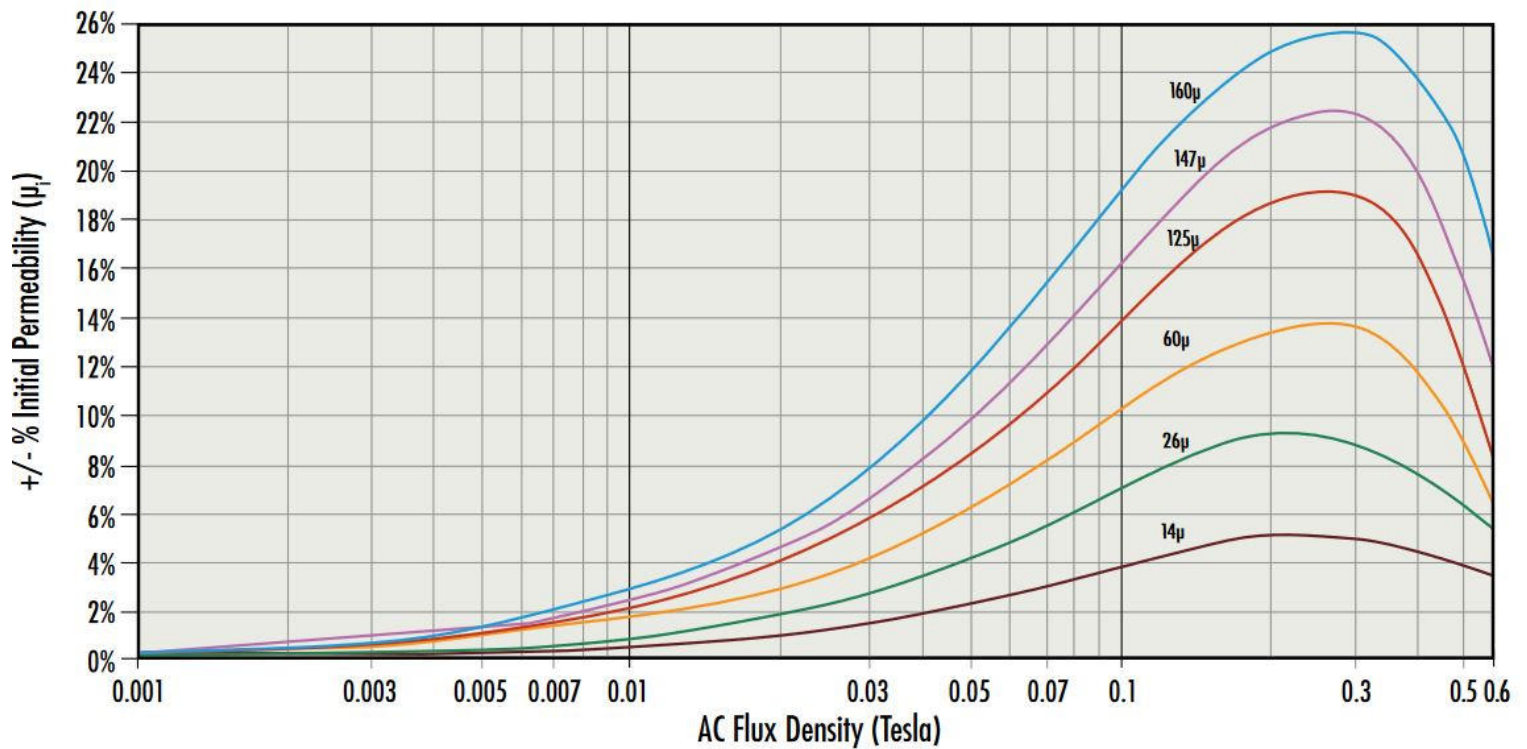
Fit Formula

$\pm \% \mu_i = a + bf + cf^2 + df^3 + ef^4$ where f = megahertz (MHz)

	Perm	a	b	c	d	e
High Flux	14μ	0	-1.070E-02	5.960E-04	-4.920E-04	3.070E-05
	26μ	0	-2.560E-02	3.430E-03	-7.340E-04	3.990E-05
	60μ	0	-3.870E-02	3.050E-03	-5.490E-04	2.690E-05
	125μ	0	-8.600E-02	1.140E-02	-1.370E-03	6.050E-05
	147μ	0	-8.170E-02	7.330E-03	-6.400E-04	2.390E-05
	160μ	0	-8.590E-02	7.220E-03	-5.530E-04	1.880E-05

Permeability versus AC Flux Curves

High Flux



Fit Formula

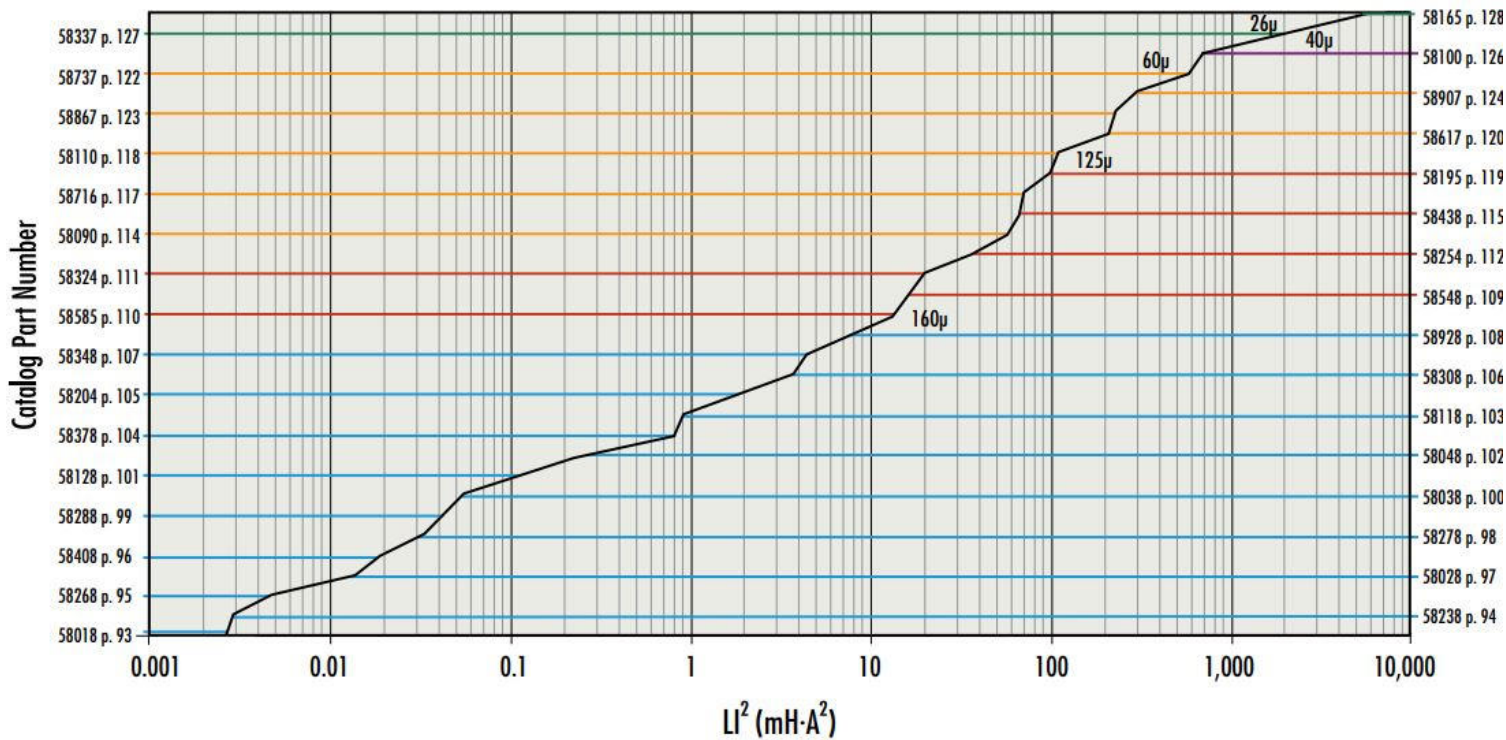
$$\pm \% \mu_i = (a + bB + cB^2 + dB^3 + eB^4) \quad \text{where } B \text{ is Tesla}$$

	Perm	a	b	c	d	e
High Flux	14μ	-1.000E-03	5.458E-01	-1.930E+00	2.598E+00	-1.228E+00
	26μ	-2.000E-03	1.020E+00	-3.696E+00	5.099E+00	-2.529E+00
	60μ	0	1.476E+00	-5.695E+00	9.395E+00	-6.182E+00
	125μ	0	1.934E+00	-6.792E+00	1.014E+01	-6.347E+00
	147μ	0	2.350E+00	-8.895E+00	1.465E+01	-9.716E+00
	160μ	-2.000E-03	2.910E+00	-1.224E+01	2.263E+01	-1.590E+01

Core selection charts



High Flux Toroids



High Flux EQ Cores

