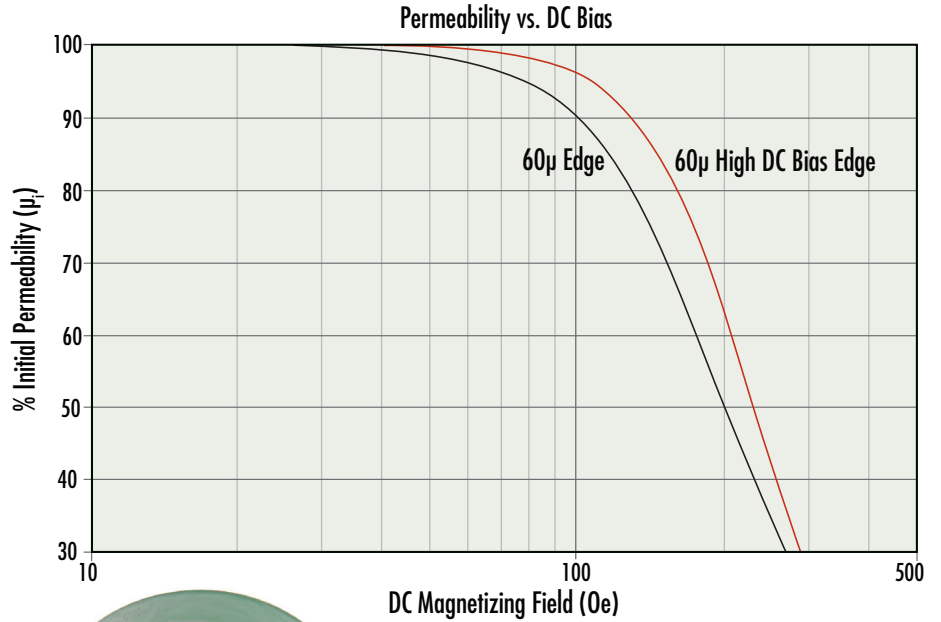




High DC Bias Edge[®] Cores

Designed for cutting edge performance, High DC Bias Edge cores offer the highest efficiency and best DC bias performance of all alloy powder cores.

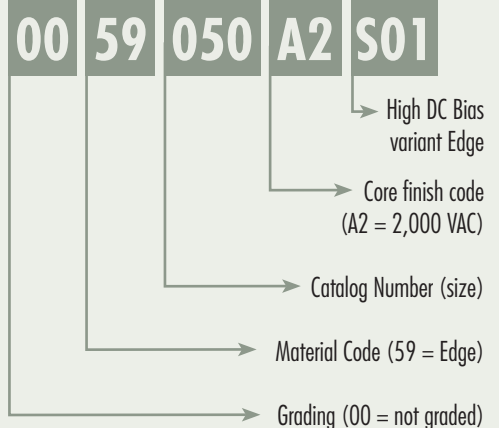
High DC Bias Edge cores provide up to 20% improvement in DC bias compared to standard nickel-iron Edge powder cores.



Perm	Perm vs. DC Bias (Oe)		Core Loss (mW/cm ³)
26μ	80%	50%	W_{1000 G, 50 kHz}
High DCB Edge	350	500	275
Edge	285	440	210

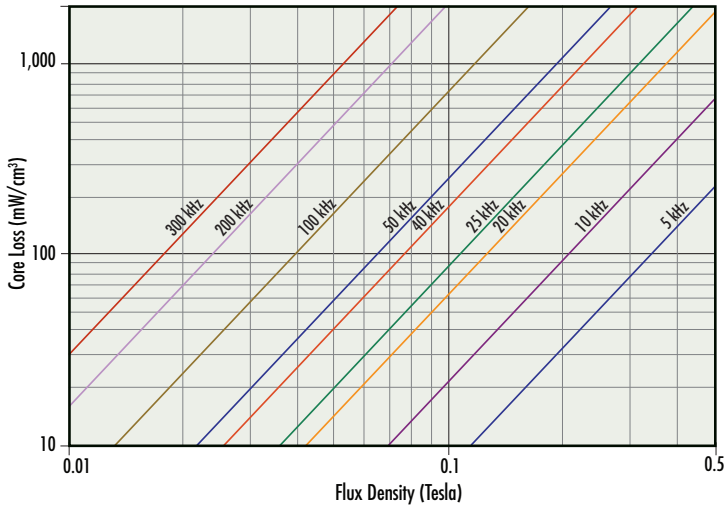
Perm	Perm vs. DC Bias (Oe)		Core Loss (mW/cm ³)
60μ	80%	50%	W_{1000 G, 50 kHz}
High DCB Edge	160	230	200
Edge	130	205	150

HOW TO ORDER



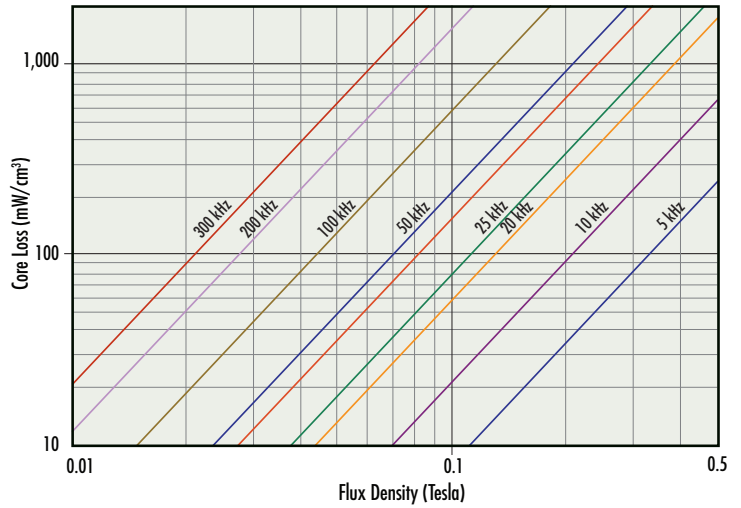
Core Loss Density Toroids 26 μ

$P = a(B^b)^c (f^c)$		
a	b	c
83.23	2.106	1.52



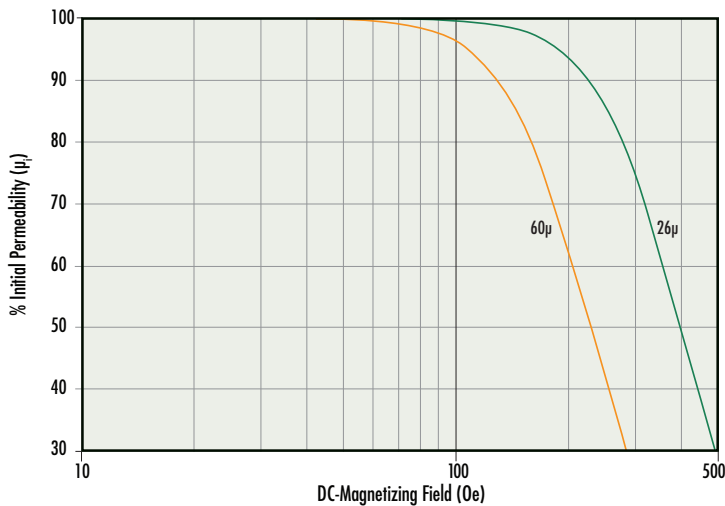
Core Loss Density Toroids 60 μ

$P = a(B^b)^c (f^c)$		
a	b	c
104.74	2.106	1.42



Permeability vs. DC Bias

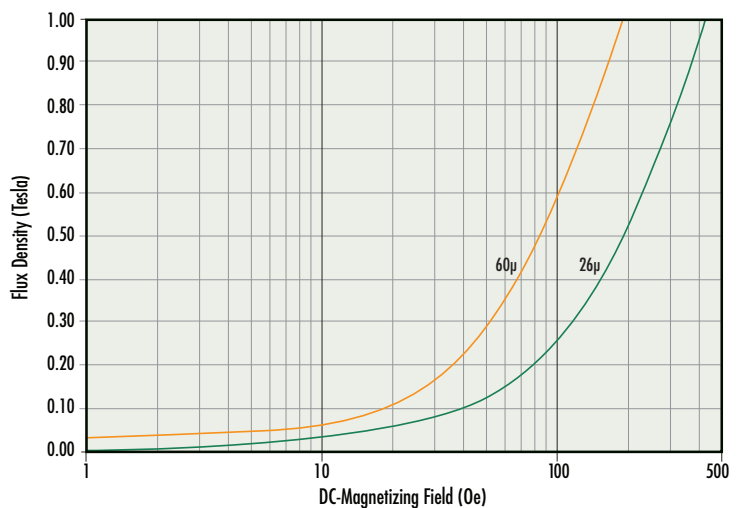
% Initial Permeability = $\frac{1}{a + bH^c}$			
	a	b	c
26	0.01	3.23E-13	3.887
60	0.01	9.51E-12	3.820



DC Magnetization

$$B = \left[\frac{a + bH + cH^2}{1 + dH + eH^2} \right]^x \text{ Units: B in Tesla, H in Oe}$$

Perm	a	b	c	d	e	x
26 μ	9.90E-02	4.60E-01	6.10E-03	8.94E-01	5.07E-03	4.97E+00
60 μ	2.040E-01	3.034E-02	1.140E-03	5.423E-02	7.748E-04	2.234E+00



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