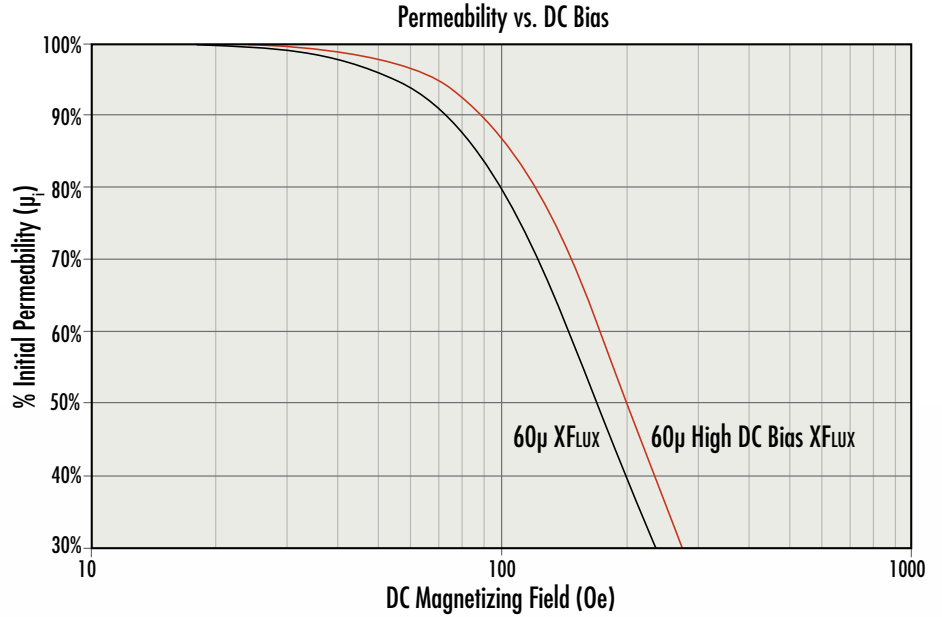




High DC Bias XFLUX[®] Cores

High DC Bias XFLUX[®] cores offer the same high saturation found in standard silicon-iron XFLUX while providing up to 20% improvement in DC bias.

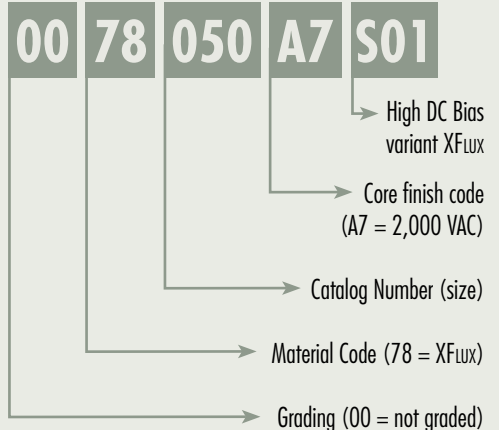
High DC Bias XFLUX allows for smaller core size for use in space-conscious inductor designs. Use of copper wire is minimized by maintaining inductance using less turns, resulting in lower copper losses and savings in overall component costs.



Perm	Perm vs. DC Bias (Oe)		Core Loss (mW/cm ³)
26μ	80%	50%	W_{1000 G, 50 kHz}
High DCB XFLUX	285	505	725
XFLUX	270	450	600

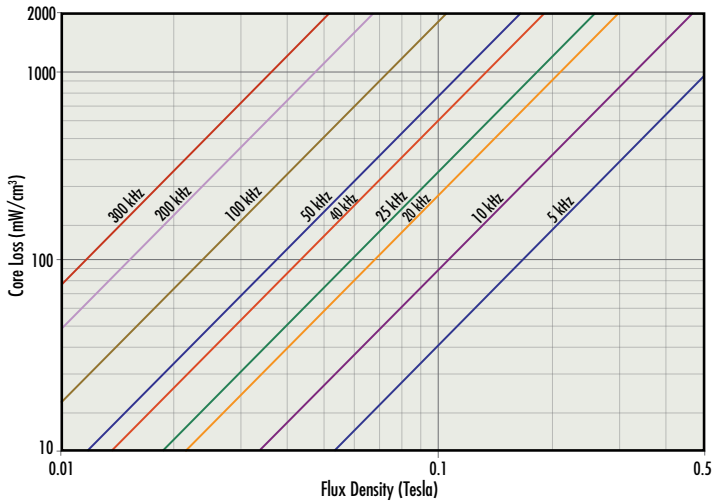
Perm	Perm vs. DC Bias (Oe)		Core Loss (mW/cm ³)
60μ	80%	50%	W_{1000 G, 50 kHz}
High DCB XFLUX	120	200	625
XFLUX	100	170	575

HOW TO ORDER



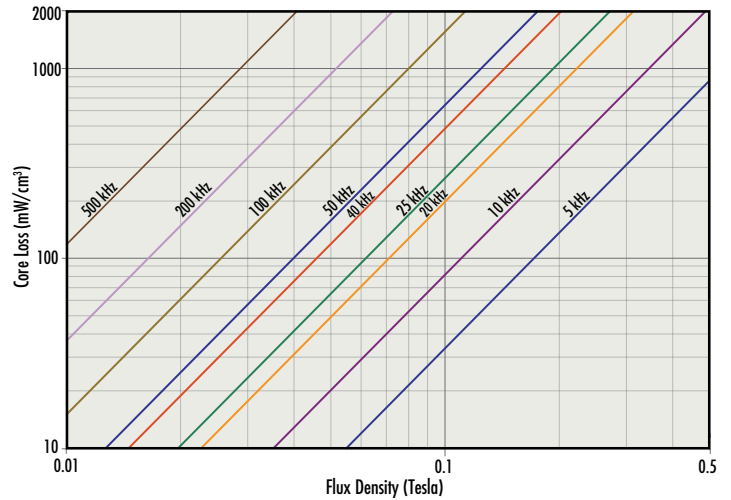
Core Loss Density 26 μ

$P = a(B^b)(f^c)$		
a	b	c
443.53	2.015	1.312



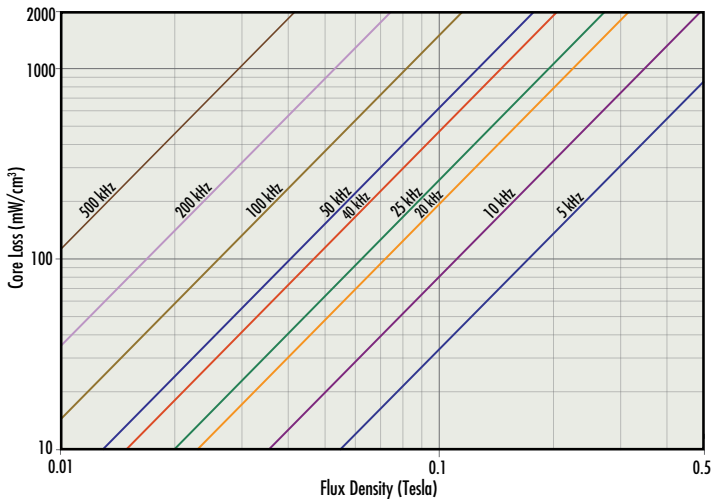
Core Loss Density 40 μ

$P = a(B^b)(f^c)$		
a	b	c
442.15	2.015	1.283



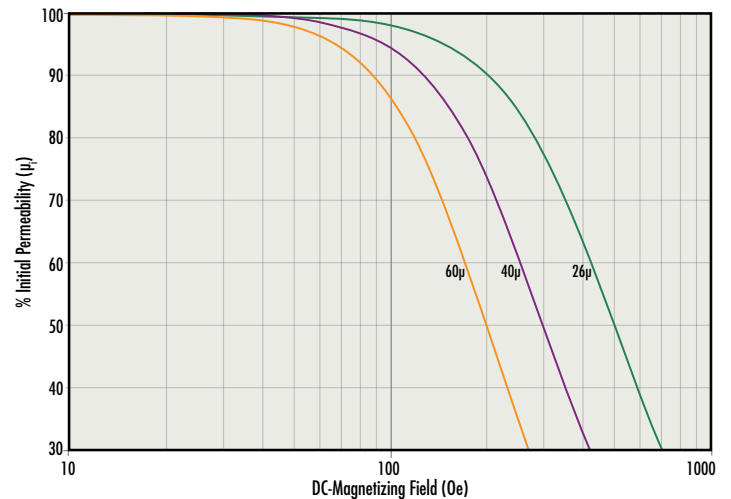
Core Loss Density 60 μ

$P = a(B^b)(f^c)$		
a	b	c
447.34	2.015	1.272



Permeability vs. DC Bias

$\% \text{ Initial Permeability} = \frac{1}{a + bH^c}$			
	a	b	c
26	0.01	2.81E-09	2.423
40	0.01	4.25E-09	2.572
60	0.01	5.69E-09	2.714



HEADQUARTERS

110 Delta Drive
Pittsburgh, PA 15238

(p) 1.412.696.1333
1.800.245.3984

magnetics@spang.com
www.mag-inc.com

MAGNETICS INTERNATIONAL

13/F 1-3 Chatham Road South
Tsim Sha Tsui, Kowloon, Hong Kong

(p) +852.2731.9700
+86.139.1147.1417

asiasales@spang.com
www.mag-inc.com