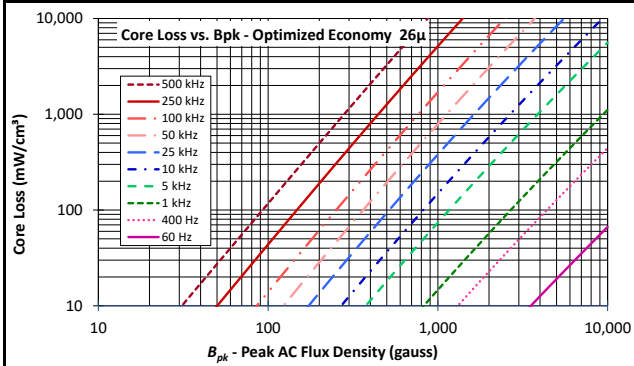




Material: **Optimized Economy 26μ Toroid**

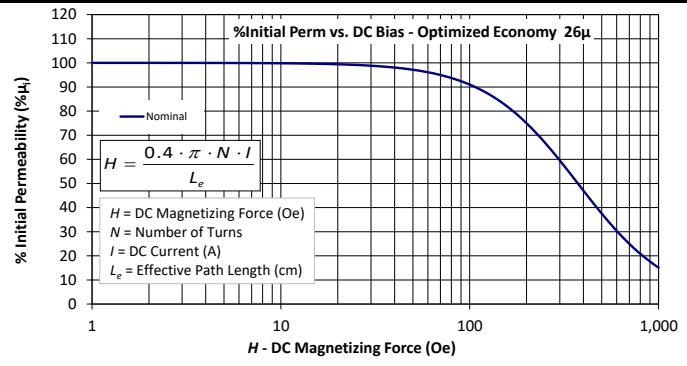
Revision 20200519 - Generated 2020-May-26

μi (reference)	026
Typical AL tolerance	± 8%
Density	5.8 g/cm ³
Bsat	12.4 kG
Core Loss (100kHz, 300g)	145 mW/cm ³ (nom) 166 mW/cm ³ (max)
	75.0% (nom)
%Perm at DC Bias (200 Oe)	68.5% (min)



$$\text{Core Loss (mW/cc)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$$

where B_{pk} expressed in gauss, f in hertz, and:
 $a=1.000E+06$, $b=2.872E+08$, $c=2.868E+06$, $d=2.365E-14$

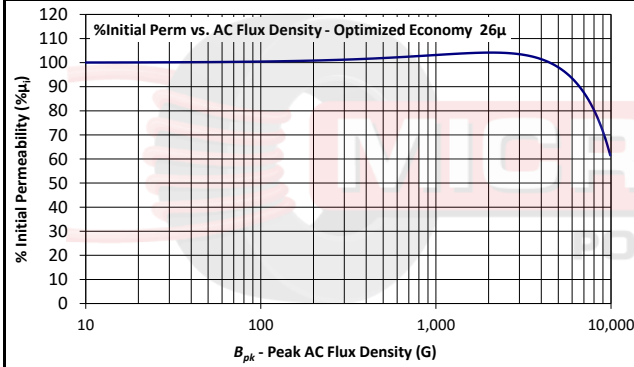


$$H = \frac{0.4 \cdot \pi \cdot N \cdot I}{L_e}$$

H = DC Magnetizing Force (Oe)
 N = Number of Turns
 I = DC Current (A)
 L_e = Effective Path Length (cm)

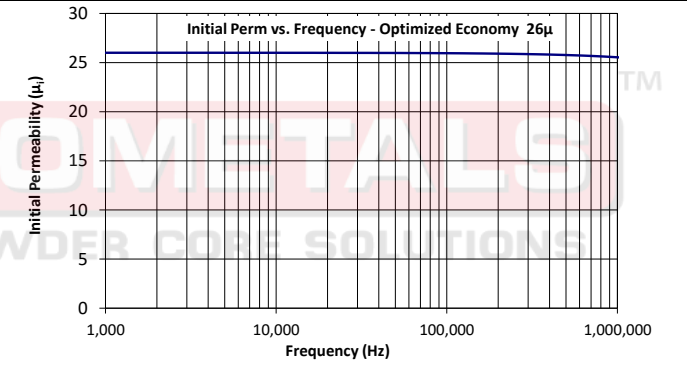
$$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$$

where H expressed in oersted, and:
 $a=1.000E-02$, $b=3.081E-07$, $c=1.754E+00$, $d=0.000E+00$



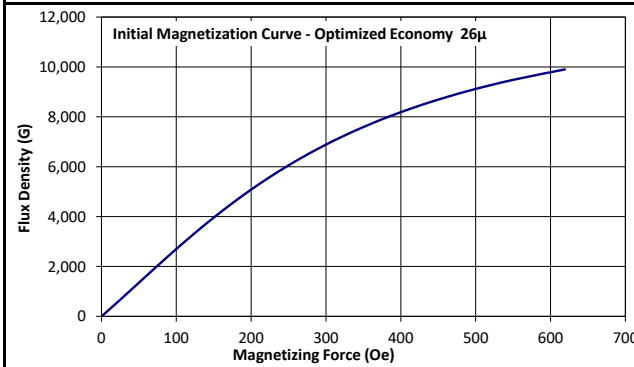
$$\% \mu_i = \frac{1}{\frac{1}{a + bB^c} + \frac{1}{dB^e} + \frac{1}{f}}$$

where B_{pk} expressed in gauss, and:
 $a=1.659E+03$, $b=2.669E-01$, $c=1.398E+00$, $d=9.090E+10$, $e=-2.138E+00$, $f=1.064E+02$



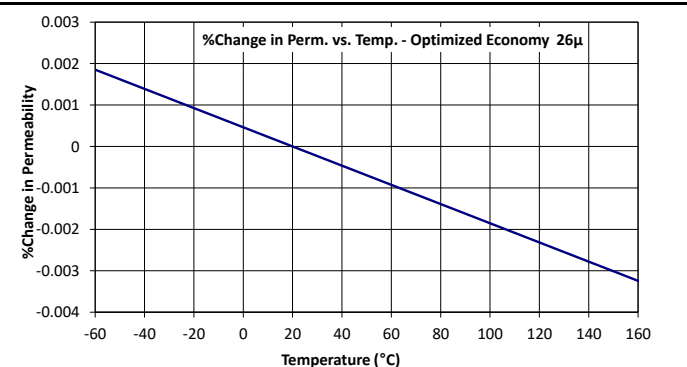
$$\mu_i = \frac{1}{a + bf^c} + d$$

where f expressed in hertz, and:
 $a=3.846E-02$, $b=6.059E-10$, $c=1.010E+00$, $d=0.000E+00$



$$B_{pk} = \frac{\mu_i}{\frac{1}{H + aH^b} + \frac{1}{cH^d} + \frac{1}{e}}$$

where B_{pk} expressed in gauss, H in oersted, and:
 $a=3.281E-03$, $b=1.999E+00$, $c=5.781E+06$, $d=2.120E+00$, $e=4.782E+02$



$$\% \left(\frac{\Delta \mu_i}{\mu_i} \right) = a(T - 20) * 0.0001$$

where T expressed in celsius, and:
 $a=-2.316E-01$, $b=-7.252E-03$, $c=1.729E-02$, $d=2.183E-04$, $e=-2.864E-04$