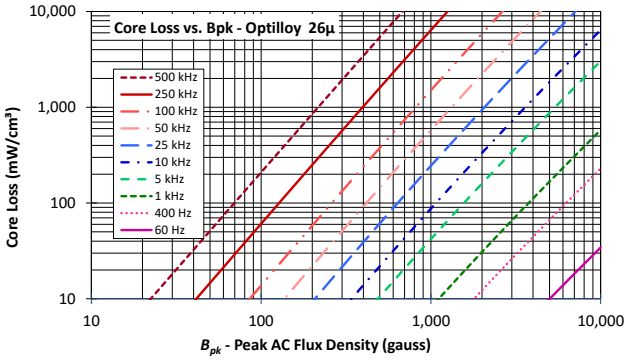
Material:	Optilloy 26µ Toroid

Revision 20200519 - Generated 2020-May-26

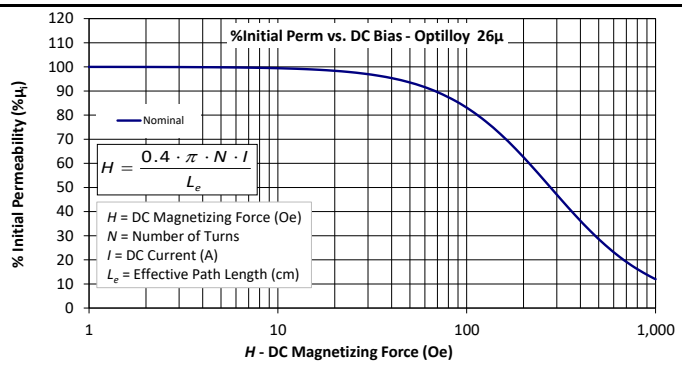
µi (reference)	026
Typical AL tolerance	± 8%
Density	6.0 g/cm³
Bsat	12.6 kG
Core Loss (100kHz, 300g)	133 mW/cm³ (nom) 153 mW/cm³ (max)
%Perm at DC Bias (200 Oe)	62.5% (nom) 55.7% (min)



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

where B_{pk} expressed in gauss, f in hertz, and:

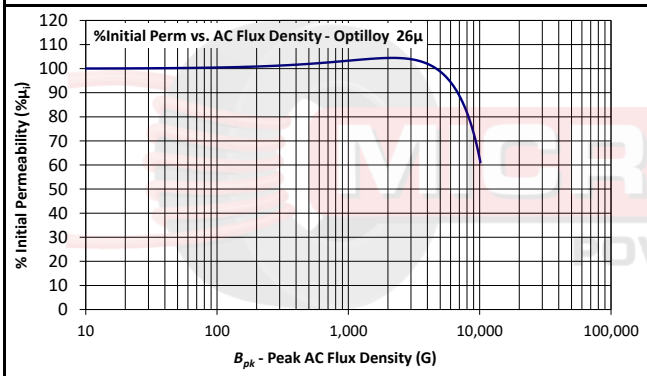
a=1.000E+06, b=4.732E+08, c=5.789E+06, d=7.000E-14



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

where H expressed in oersted, and:

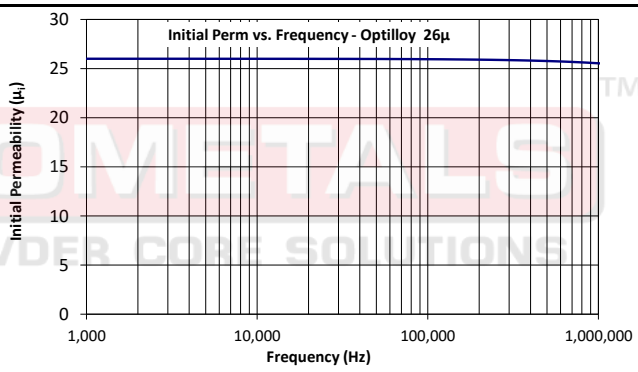
a=1.000E-02, b=1.566E-06, c=1.557E+00, d=0.000E+00



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

where B_{pk} expressed in gauss, and:

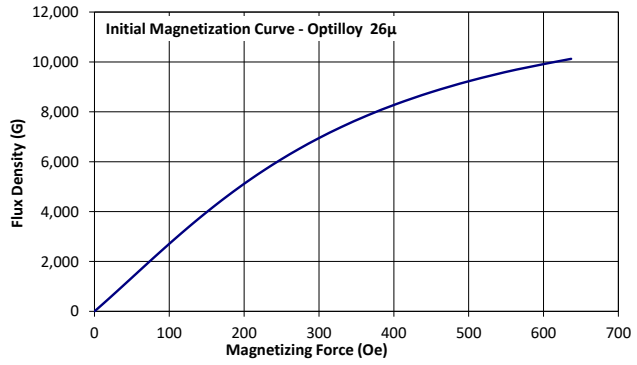
a=1.659E+03, b=2.669E-01, c=1.398E+00, d=9.090E+10, e=-2.138E+00, f=1.064E+02



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

where f expressed in hertz, and:

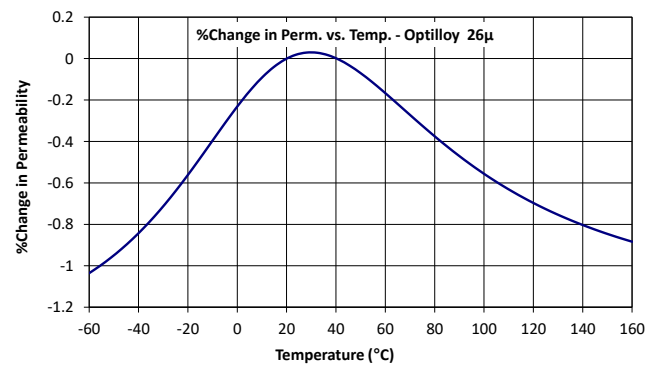
a=3.846E-02, b=6.059E-10, c=1.010E+00, d=0.000E+00



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

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=4.860E+02



$$\%\left(\frac{\Delta\mu_i}{\mu_i}\right) = \frac{a + cT + eT^{2}}{1 + bT + dT^{2}}$$

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

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