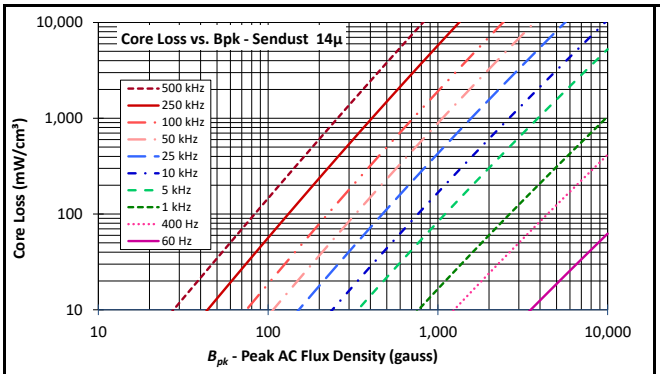
Material:	Sendust 14µ Toroid

Revision 20200519 - Generated 2020-May-26

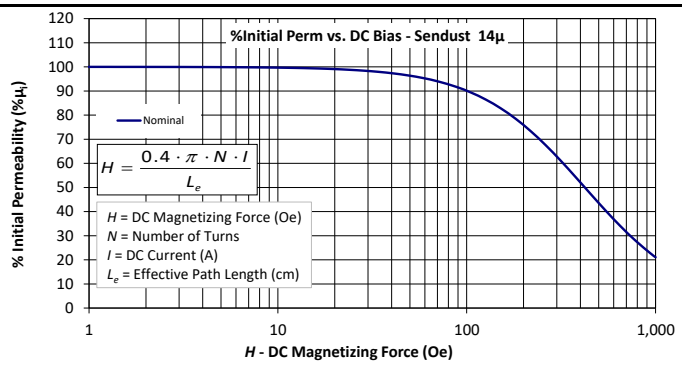
µi (reference)	014
Typical AL tolerance	± 8%
Density	4.9 g/cm³
Bsat	7.9 kG
Core Loss (100kHz, 300g)	180 mW/cm³ (nom) 207 mW/cm³ (max)
%Perm at DC Bias (200 Oe)	75.9% (nom) 70.4% (min)



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

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

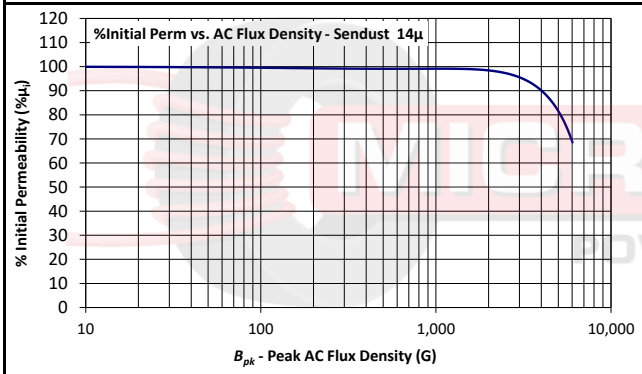
a=1.000E+06, b=1.814E+08, c=3.377E+06, d=2.628E-14



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

where H expressed in oersted, and:

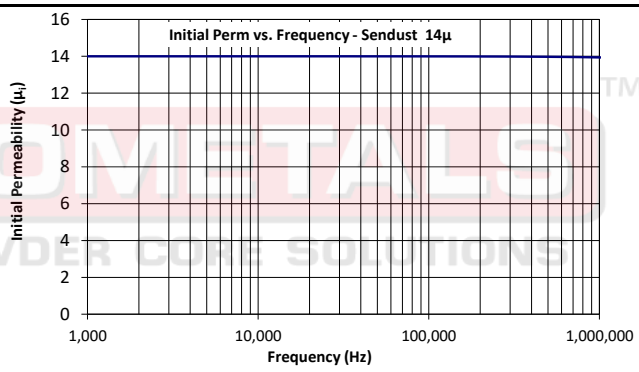
a=1.000E-02, b=9.443E-07, c=1.533E+00, d=0.000E+00



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

where B_{pk} expressed in gauss, and:

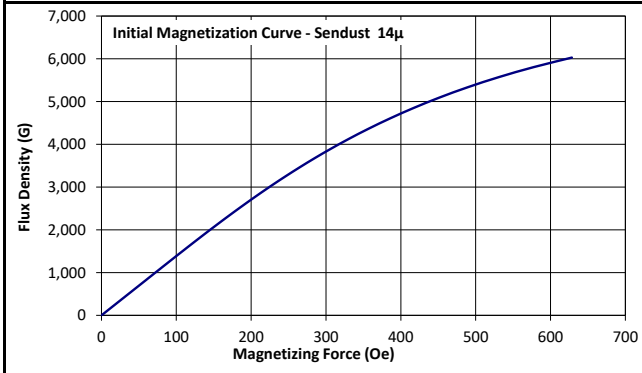
a=3.000E+02, b=5.905E-01, c=2.738E-01, d=3.576E+08, e=-1.544E+00, f=1.500E+02



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

where f expressed in hertz, and:

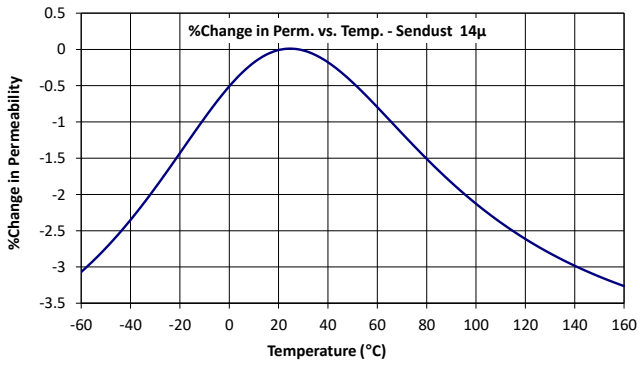
a=7.143E-02, b=3.017E-11, c=1.170E+00, d=0.000E+00



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

where B_{pk} expressed in gauss, H in oersted, and:

a=7.276E-04, b=2.222E+00, c=2.003E+09, d=1.000E-08, e=5.631E+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=-5.096E-01, b=-5.552E-03, c=4.212E-02, d=1.825E-04, e=-8.533E-04

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