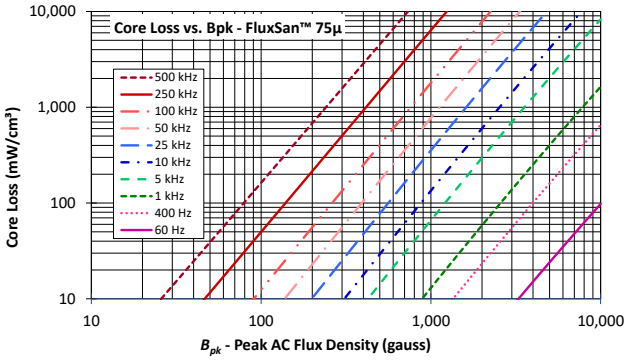
Material:	FluxSan™ 75µ Toroid

Revision 20200519 - Generated 2020-May-26

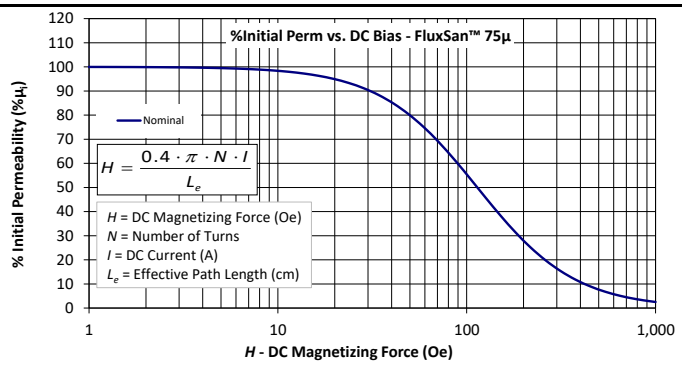
µi (reference)	075
Typical AL tolerance	± 8%
Density	6.9 g/cm³
Bsat	17.8 kG
Core Loss (50kHz, 1000g)	772 mW/cm³ (nom) 887 mW/cm³ (max)
%Perm at DC Bias (80 Oe)	64.4% (nom) 57.1% (min)



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

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

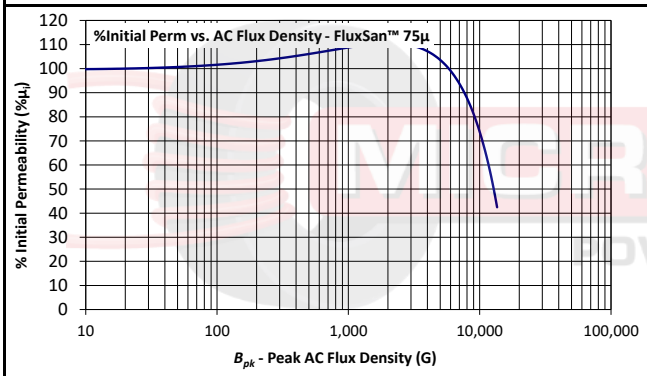
a=1.883E+08, b=5.098E+08, c=1.162E+06, d=5.024E-14



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

where H expressed in oersted, and:

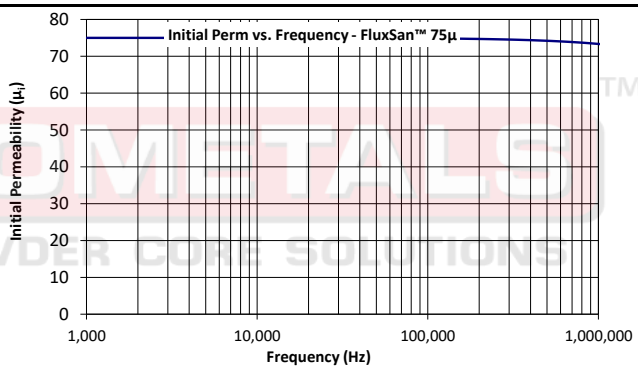
a=1.000E-02, b=3.486E-06, c=1.682E+00, d=0.000E+00



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

where B_{pk} expressed in gauss, and:

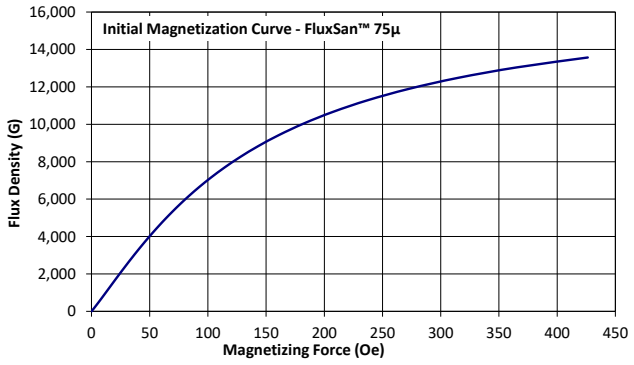
a=5.730E+02, b=3.605E-01, c=1.070E+00, d=1.294E+10, e=-1.944E+00, f=1.211E+02



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

where f expressed in hertz, and:

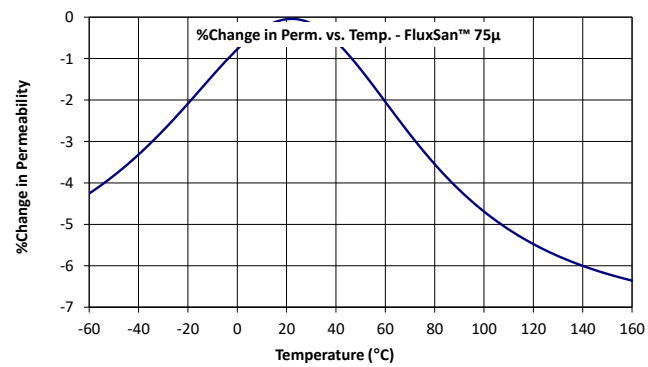
a=1.333E-02, b=1.025E-10, c=1.078E+00, d=0.000E+00



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

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

a=4.727E-02, b=1.691E+00, c=3.412E+01, d=6.063E-01, e=2.375E+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=-7.754E-01, b=-1.104E-02, c=6.698E-02, d=2.073E-04, e=-1.516E-03

Micrometals Arnold Powder Cores, A Division of Micrometals, Inc. - 5615 E. La Palma Ave., Anaheim, California 92807 USA
Ph: +1-714-970-9400, Toll Free in USA: +1-800-356-5977, Asia Pacific Sales: +852 3106 3736
www.MicrometalsArnoldPowderCores.com