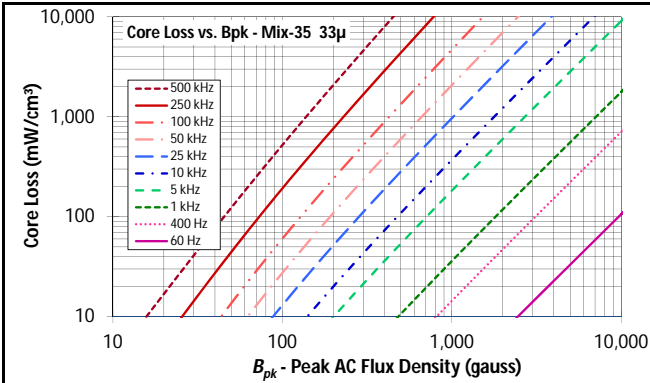




Mix: -35

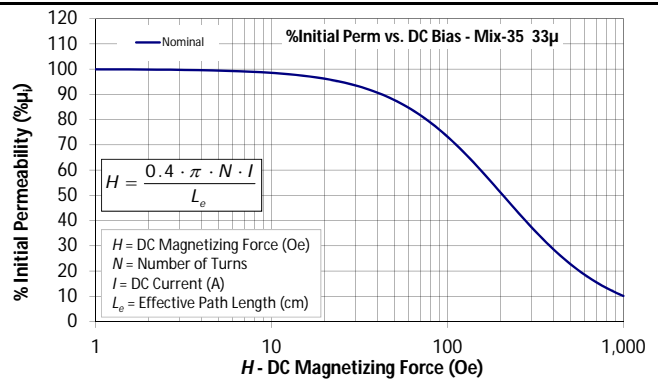
Revision 20170912 - Generated 2017-Sep-14

μ (reference)	33
Color Code	Yellow/Gray
Density	6.3 g/cm ³
Bsat	17.3kG
Core Loss (100kHz, 140g)	119 mW/cm ³ (nom) 137 mW/cm ³ (max)
%Perm at DC Bias (100 Oe)	73.3% (nom) 68.0% (min)



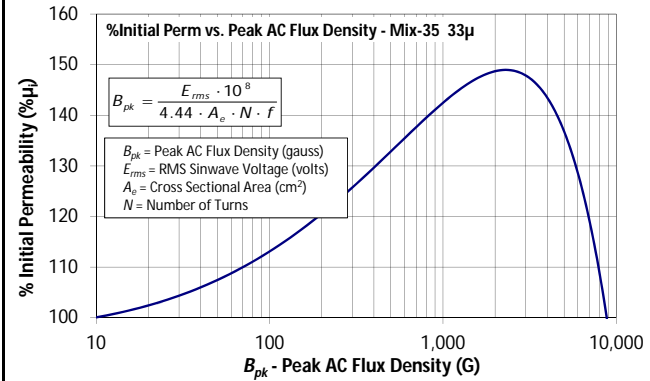
$$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$$

where B_{pk} expressed in gauss, f expressed in hertz, and:
 $a=3.70E+08$, $b=2.20E+07$, $c=2.20E+06$, $d=1.10E-13$



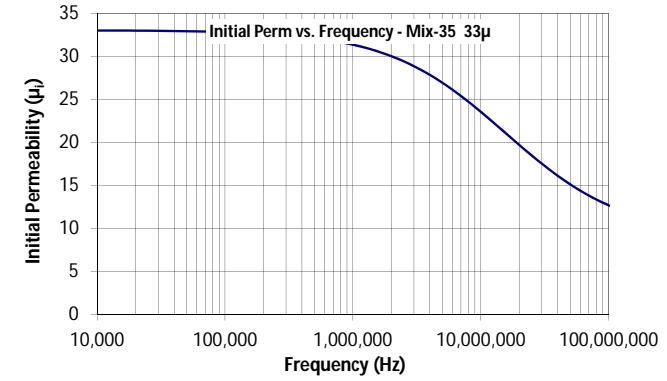
$$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$$

where H expressed in oersteds, and:
 $a=1.00E-02$, $b=6.22E-06$, $c=1.38$, $d=0.00$



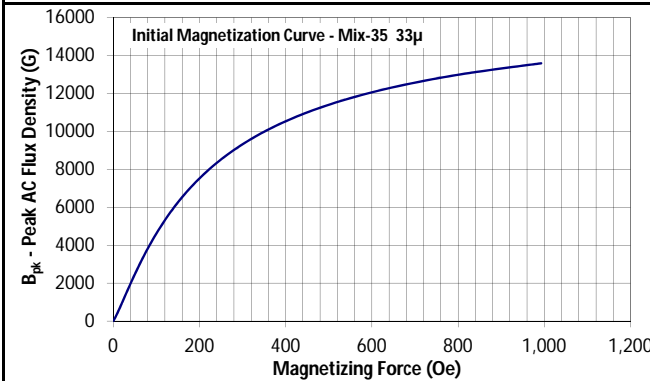
$$\% \mu_i = \frac{1}{\frac{1}{a + bB_{pk}^c} + \frac{1}{dB_{pk}^e} + \frac{1}{f}}$$

where B_{pk} expressed in gauss, and:
 $a=2.53E+02$, $b=1.55E+00$, $c=9.06E-01$, $d=1.08E+12$, $e=-2.44E+00$, $f=1.65E+02$



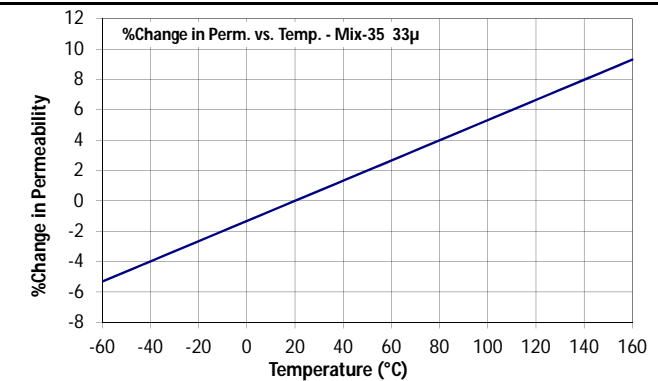
$$\mu_i = \frac{1}{a + bf^c} + d$$

where f expressed in hertz, and:
 $a=4.18E-02$, $b=7.09E-09$, $c=9.41E-01$, $d=9.13E+00$



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

where B_{pk} expressed in gauss, H in oested, and:
 $a=1.81E-01$, $b=1.60E+00$, $c=9.75E+00$, $d=7.91E-01$, $e=5.23E+02$



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

where T expressed in celsius, and:
 $a=665$