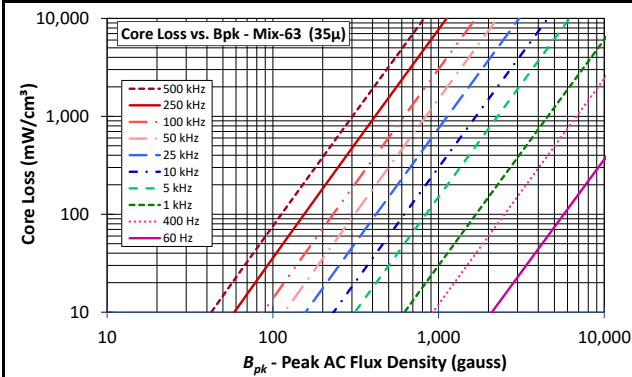




Mix: -63

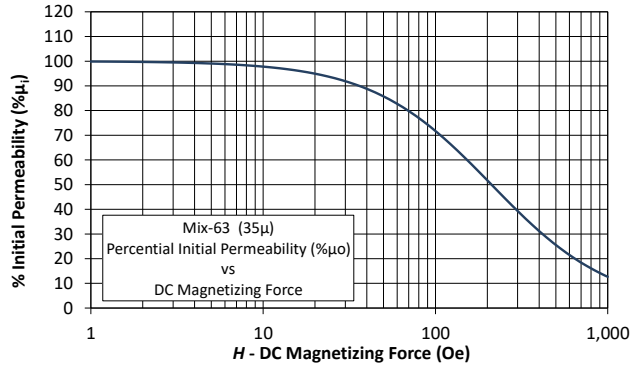
Revision 20190524 - Generated 2019-May-24

μi(reference)	35
Typical AL tolerance	± 10%
Color Code	Brown/Beige
Density	5.9 g/cm ³
Bsat	14.1kG
Core Loss (100kHz, 140g)	31 mW/cm ³ (nom) 35 mW/cm ³ (max)
%Perm at DC Bias (200 Oe)	51.7% (nom) 46.1% (min)



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

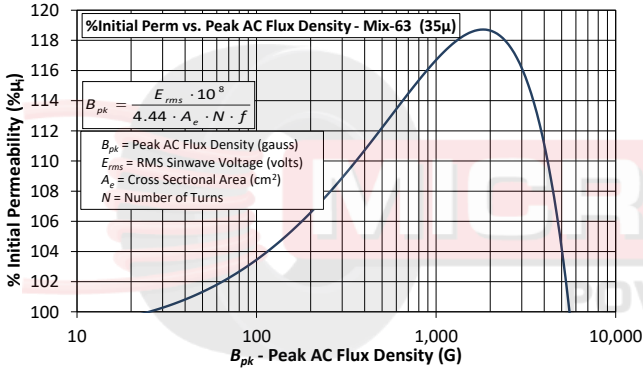
where B_{pk} expressed in gauss, f expressed in hertz, and:
 $a=9.94E+08$, $b=2.56E+08$, $c=1.00E+04$, $d=3.34E-15$



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

where H expressed in oersteds, and:

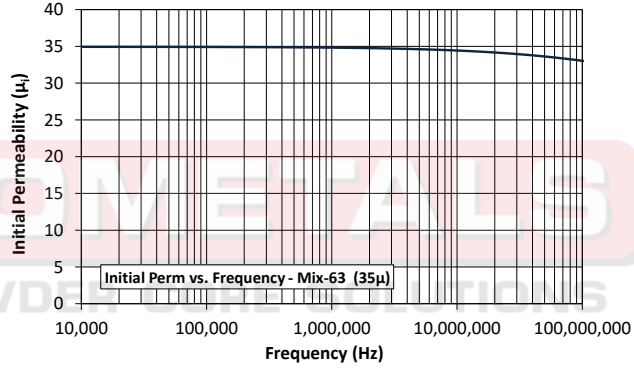
$a=1.00E-02$, $b=1.29E-05$, $c=1.24$, $d=0.00$



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

where B_{pk} expressed in gauss, and:

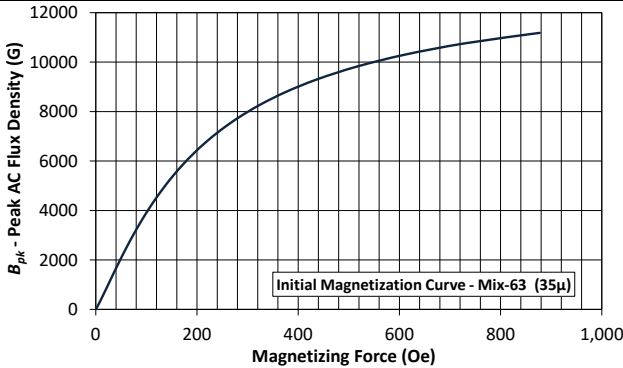
$a=5.04E+02$, $b=1.06E-01$, $c=1.39E+00$, $d=5.71E+11$, $e=-2.43E+00$, $f=1.25E+02$



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

where f expressed in hertz, and:

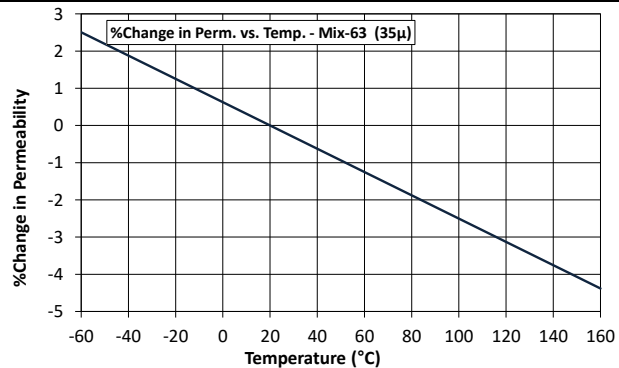
$a=1.27E-01$, $b=1.98E-07$, $c=6.64E-01$, $d=2.70E+01$



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

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

$a=6.65E-02$, $b=1.65E+00$, $c=1.84E+01$, $d=7.04E-01$, $e=4.02E+02$



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

where T expressed in celsius, and:

$a=-313$