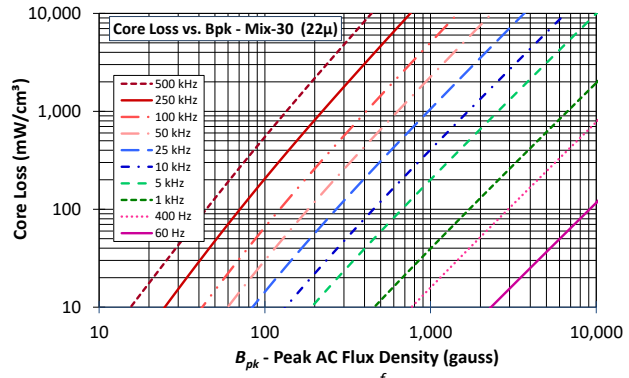
| Mix: | -30 |
|---|---|

Revision 20190524 - Generated 2019-May-24

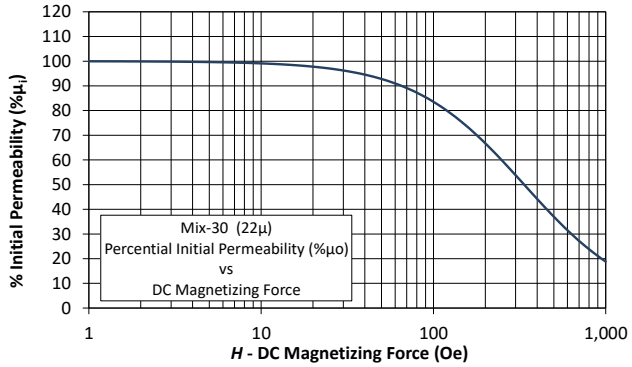
| | |
|---|---|
| µi(reference) | 22 |
| Typical AL tolerance | ± 10% |
| Color Code | Green/Gray |
| Density | 6.0 g/cm³ |
| Bsat | 16.7kG |
| Core Loss (100kHz, 140g) | 129 mW/cm³ (nom)<br>149 mW/cm³ (max) |
| %Perm at DC Bias (200 Oe) | 66.7% (nom)<br>61.1% (min) |




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

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

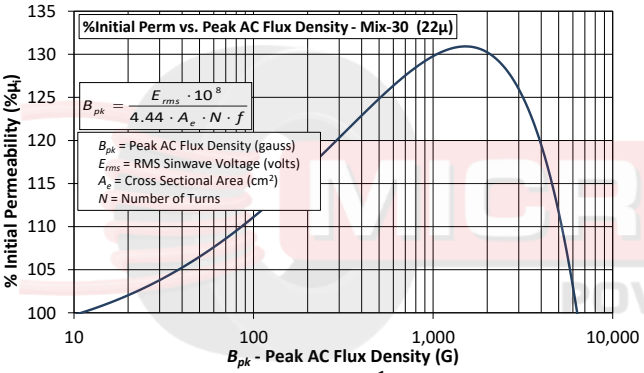
*a=3.30E+08, b=2.00E+07, c=2.00E+06, d=1.10E-13*




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

where $H$ expressed in oersteds, and:

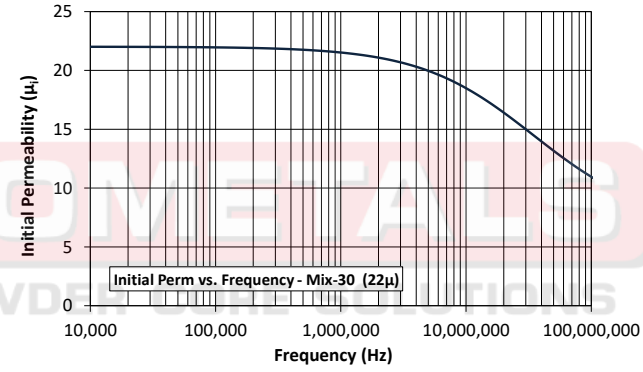
*a=1.00E-02, b=4.10E-06, c=1.34, d=0.00*




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

where $B_{pk}$ expressed in gauss, and:

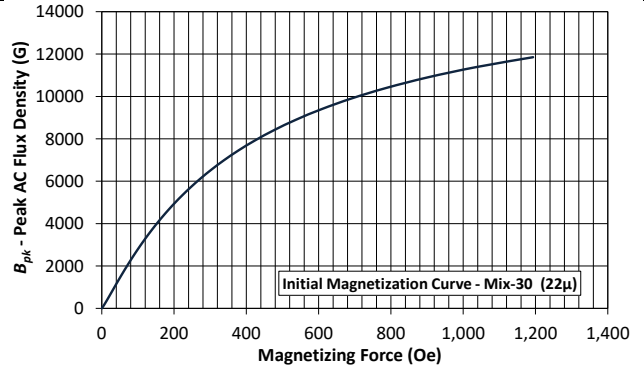
*a=3.41E+02, b=1.31E+00, c=1.04E+00, d=6.06E+08, e=-1.63E+00, f=1.41E+02*




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

where $f$ expressed in hertz, and:

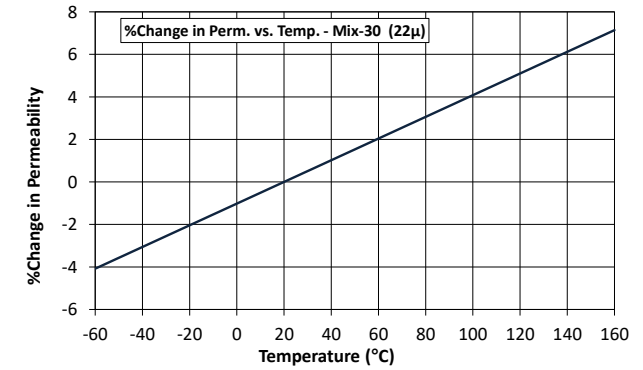
*a=6.63E-02, b=4.20E-09, c=9.55E-01, d=6.93E+00*




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

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

*a=1.87E-01, b=1.52E+00, c=7.61E+00, d=8.05E-01, e=7.60E+02*




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

where $T$ expressed in celsius, and:

*a=510*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