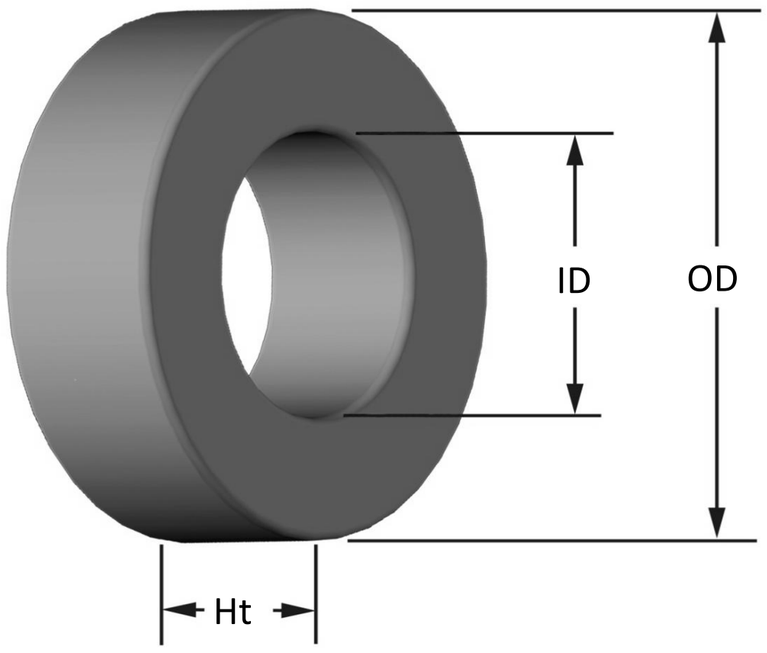
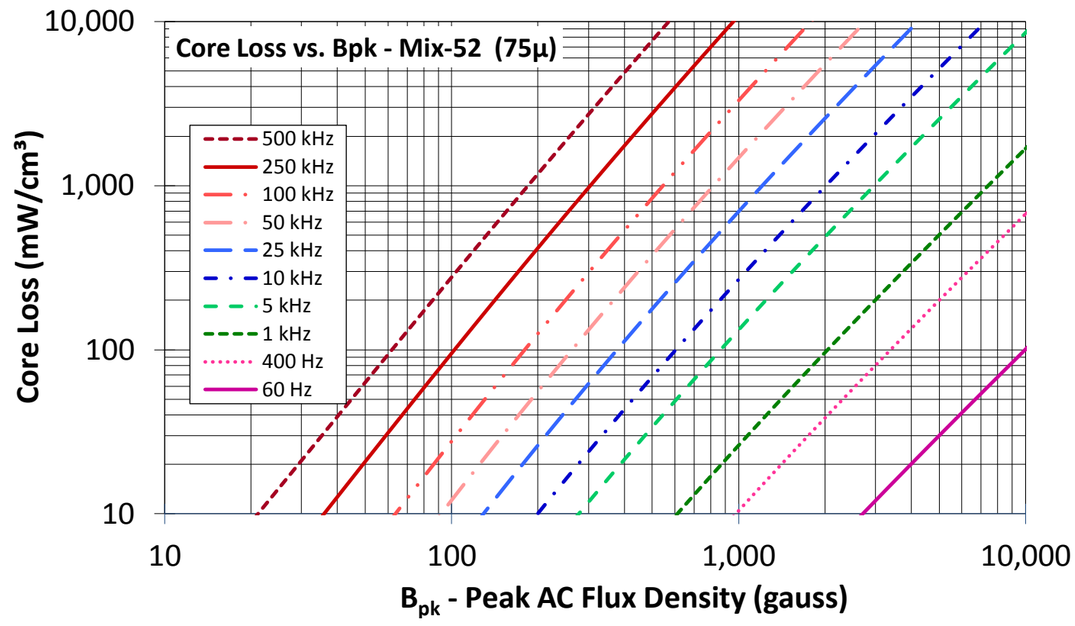
MICROMETALS™
POWDER CORE SOLUTIONS

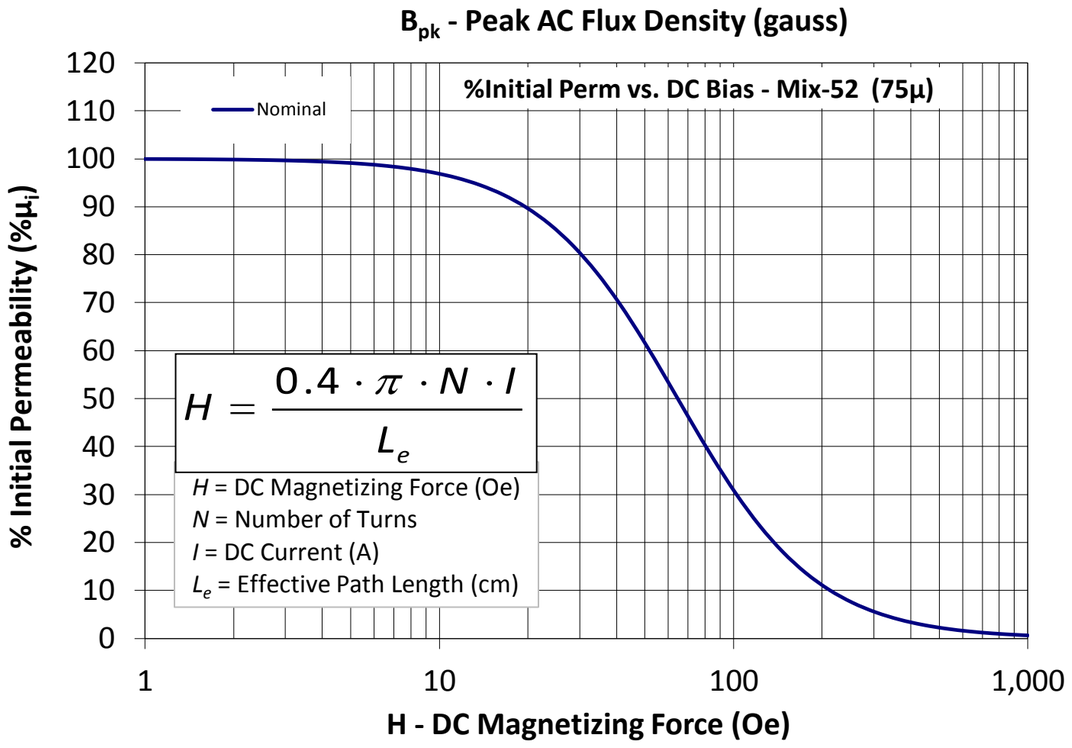
| Part Number: | T26-52 |
|---|---|

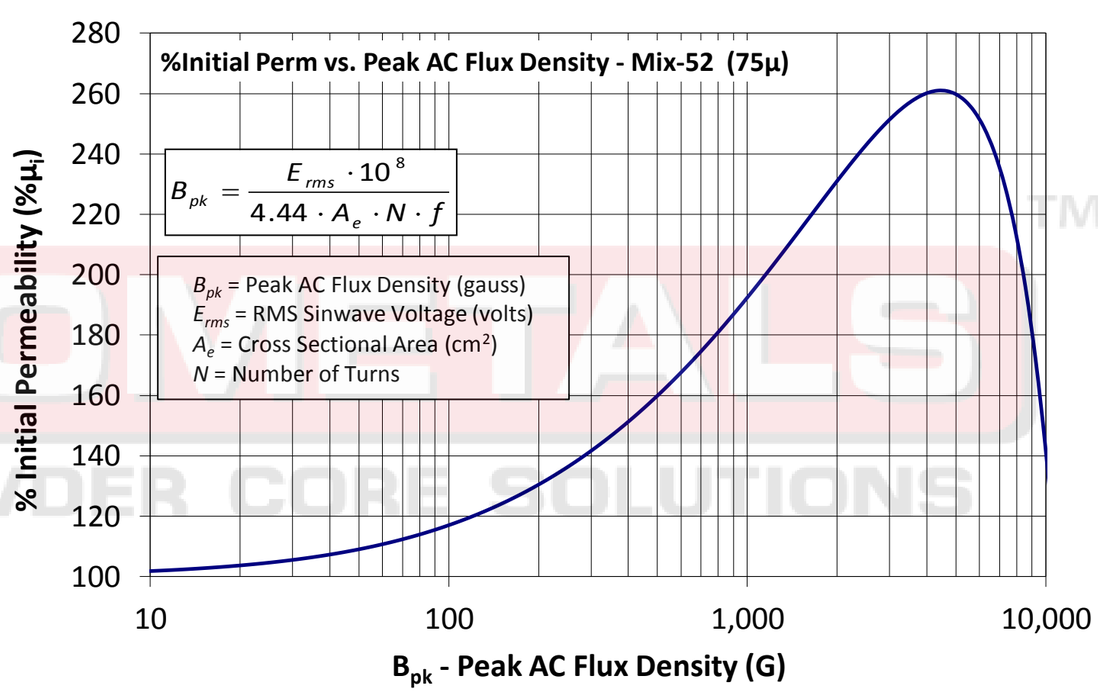
Revision 20190524 - Generated 2019-May-30

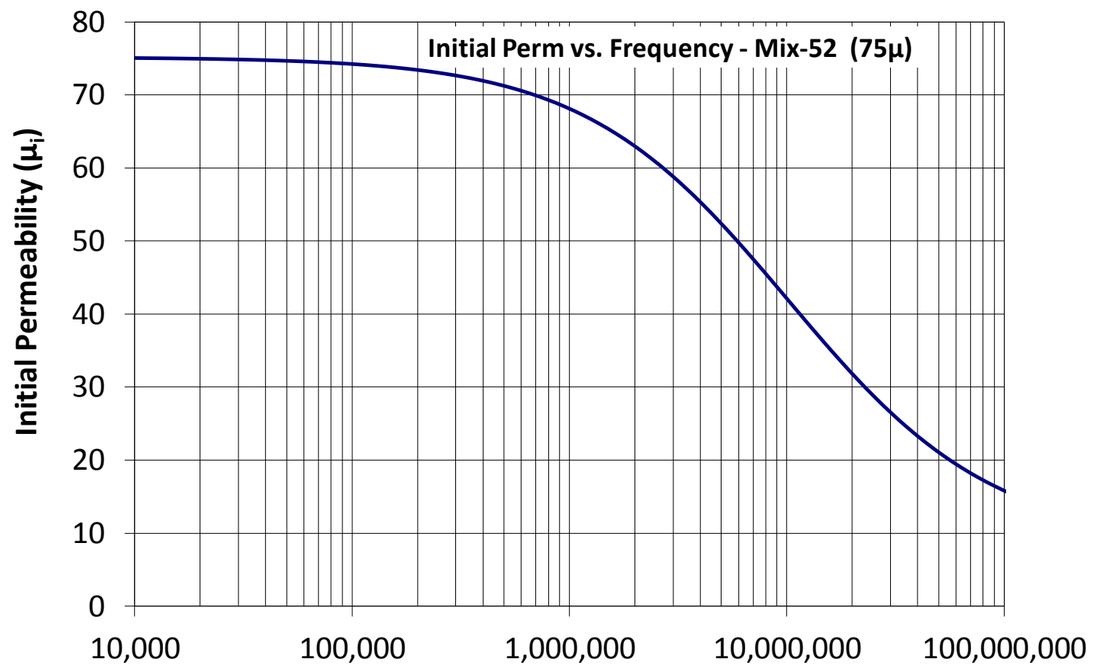



| | | | |
|---|---|---|---|
| **OD** | (nom. - bare core) | 6.73 mm | 0.265 in |
| | (max. - after coating) | 7.11 mm | 0.280 in |
| **ID** | (nom. - bare core) | 2.67 mm | 0.105 in |
| | (min. - after coating) | 2.29 mm | 0.090 in |
| **Ht** | (nom. - bare core) | 4.83 mm | 0.190 in |
| | (max. - after coating) | 5.33 mm | 0.210 in |
| **Mass** | (approximate) | 0.93 grams | |
| **Magnetic Dimensions** | $A_e$ - Eff. Mag. Cross Section | 0.0900 cm² | |
| | $L_e$ - Eff. Mag. Path Length | 1.47 cm | |
| | $V_e$ - Eff. Core Volume | 0.133 cm³ | |
| | WA - Min. Eff. Window Area | 0.0410 cm² | |
| | sa - Surface Area | 2.31 cm² | |
| | mlt - mean length per turn | 1.66 cm | |
| **Inductance** | $\mu_i$(reference) | 75 | |
| | $A_L$ value (nominal) | 56 nH/N² | |
| | Test Winding | N=50, #36 AWG | |
| | Frequency | 10 kHz | |
| | Voltage on Agilent 4284A | 0.020 V | |
| | $A_L$ tolerance | ±10% | |
| **Core Loss** | Core Loss(mW/cm³)= $\frac{f}{\frac{a}{Bpk^{3}}+\frac{b}{Bpk^{2.3}}+\frac{c}{Bpk^{1.65}}}+d\cdot Bpk^{2}\cdot f^{2}$ | | |
| | where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: | | |
| | *a=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14* | | |
| | Bpk | 140 G | |
| | frequency | 100 kHz | |
| | Core Loss (nominal) | 58 mW/cm³ | |
| | Core Loss (maximum) | 67 mW/cm³ | |
| **DC Saturation** | $\%\mu_i = \frac{1}{a+b\cdot H^{c}}+d$ | | |
| | where H expressed in oersteds, and: | | |
| | *a=1.00E-02, b=4.66E-06, c=1.84, d=0.00* | | |
| | $H_{DC}$ | 50 Oe | |
| | Percent Initial Perm(nom.) | 61.6% | |
| | Percent Initial Perm(min.) | 53.4% | |
| **Coating/Pkg** | Coating Type: | Green/Blue Epoxy Paint | |
| | Voltage Breakdown (min.) | 500 Vrms, 60Hz | |
| | Limit | 3 mA, 5 s | |
| | Package Quantity | 20,000 Pcs/Box | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Winding Table** | **Wire Size** | AWG | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | #N/A |
| | | mm | 0.400 | 0.315 | 0.250 | 0.200 | 0.160 | 0.125 | 0.100 | 0.080 | 0.063 | 0.050 | #N/A |
| | **Single Layer** | Turns | 11 | 14 | 19 | 24 | 30 | 38 | 48 | 61 | 77 | 96 | #N/A |
| | | Rdc(Ω) | 24.5 m | 49.6 m | 107.0 m | 215.0 m | 427.3 m | 860.9 m | 1.7 | 3.5 | 7.0 | 13.9 | #N/A |
| | **Full Winding** | Turns | 11 | 17 | 26 | 41 | 63 | 97 | 151 | 233 | 361 | 558 | #N/A |
| | | Rdc(Ω) | 24.5 m | 60.2 m | 146.4 m | 367.2 m | 897.4 m | 2.2 | 5.4 | 13.4 | 32.9 | 80.9 | #N/A |


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