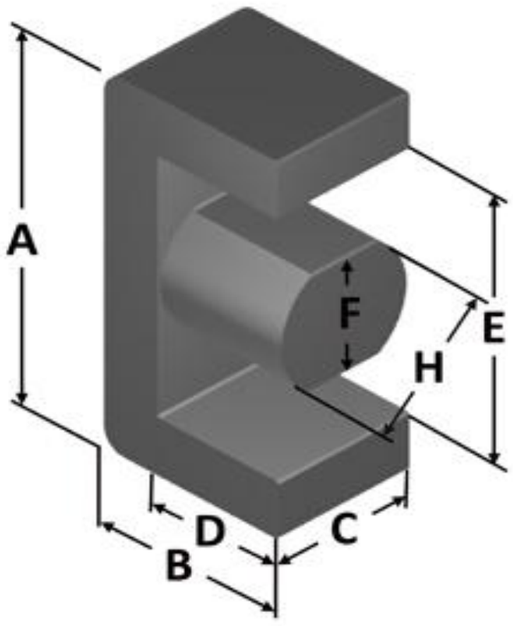
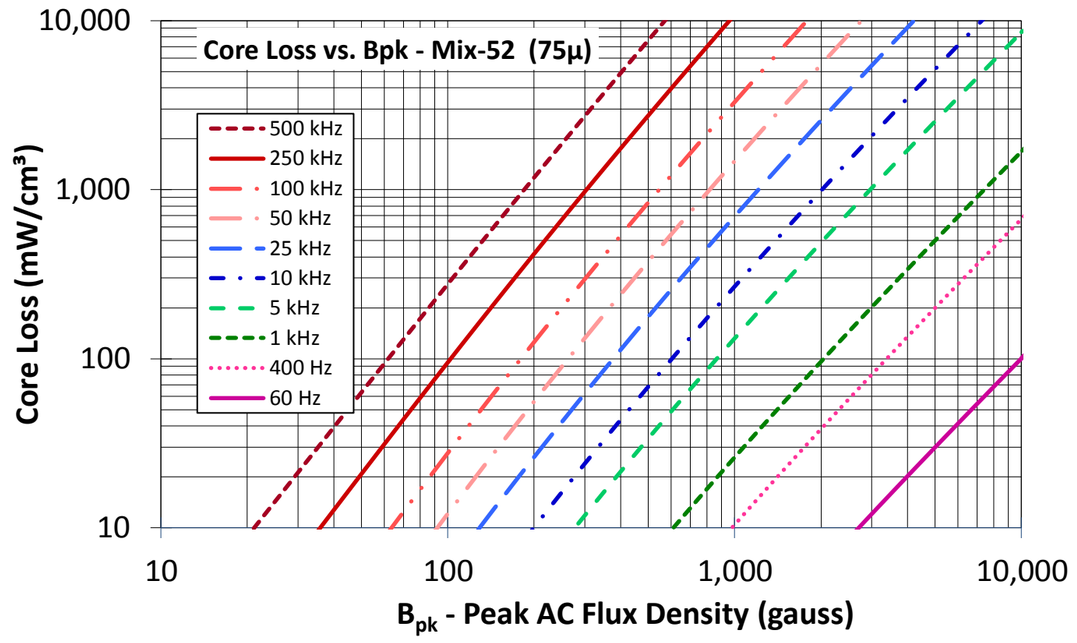
MICROMETALS™
POWDER CORE SOLUTIONS

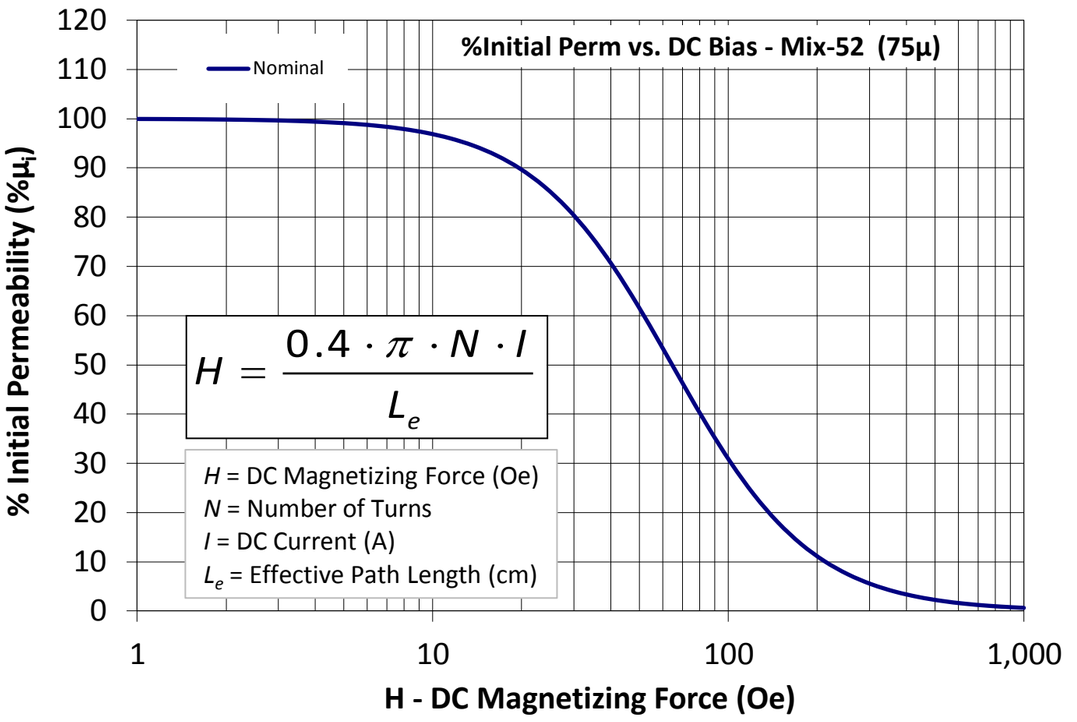
Part Number:	EM126-52/G040

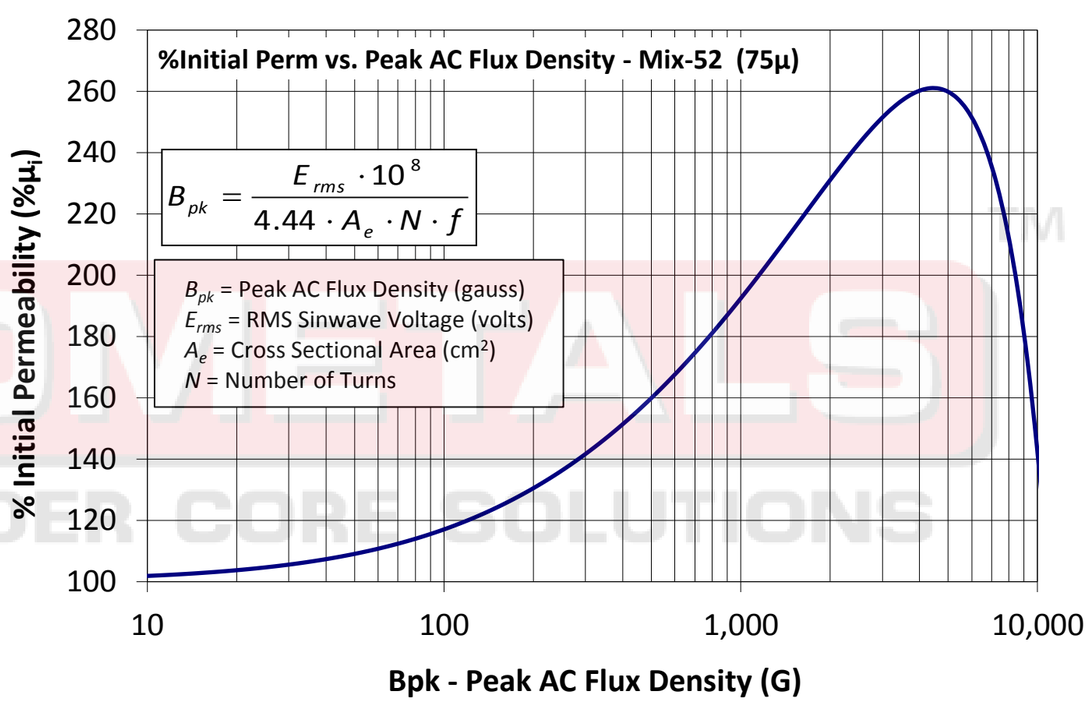
Revision 20190524 - Generated 2019-May-30

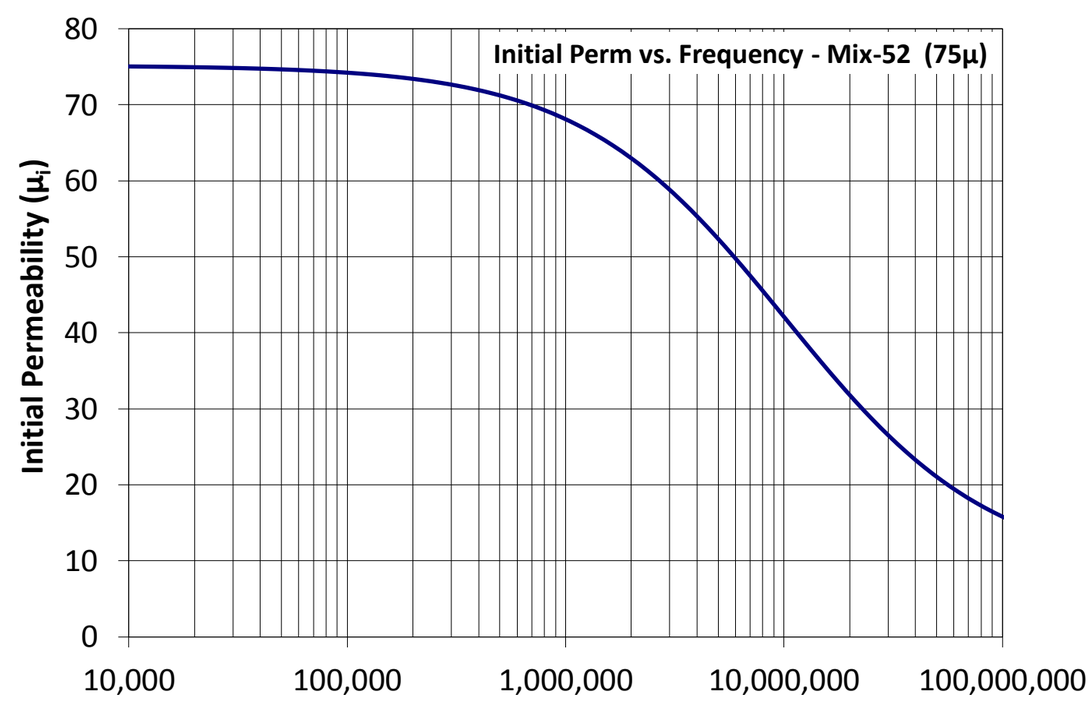


A	31.75 ± 0.38 mm	1.250 ± 0.015 in
B	15.88 ± 0.19 mm	0.625 ± 0.008 in
C	14.48 ± 0.18 mm	0.570 ± 0.007 in
D	11.63 mm (nom.)	0.458 in (nom.)
E	25.65 mm (nom.)	1.010 in (nom.)
F	11.13 ± 0.25 mm	0.438 ± 0.010 in
H	11.13 ± 0.13 mm	0.438 ± 0.005 in
Mass	(approximate)	26 grams/half
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.960 cm²
	L_e - Eff. Mag. Path Length	7.46 cm
	V_e - Eff. Core Volume	7.43 cm³
	WA - Min. Eff. Window Area	1.66 cm²
	sa - Surface Area	45.7 cm²
	mlt - mean length per turn	8.03 cm
Inductance	μ_i(reference)	75
	A_L value (nominal)	49.9 nH/N²
	Test Winding	N=27, #0 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.12 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	
	B_{pk}	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:	None, Green/Blue Stripes
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	576 Halves/Box









Winding Table												
Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
	mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
Full Winding	Turns	14	21	33	51	80	123	190	295	456	706	1,093
	Rdc(Ω)	3.7 m	8.8 m	21.9 m	53.8 m	134.3 m	328.5 m	806.9 m	2.0	4.9	12.1	29.7

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