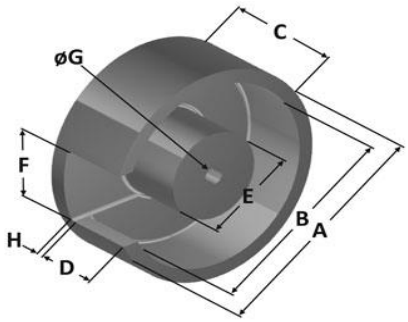
MICROMETALS™
POWDER CORE SOLUTIONS

Part Number:	PMS-060030-060-2
Revision:	2026-Apr-30



A	60.50 ± 0.50 mm	2.382 ± 0.020 in
B	51.50 ± 0.50 mm	2.028 ± 0.020 in
C	15.00 ± 0.25 mm	0.591 ± 0.010 in
D	7.75 ± 0.25 mm	0.305 ± 0.010 in
E	25.30 ± 0.30 mm	0.996 ± 0.012 in
F	14.80 ± 0.30 mm	0.583 ± 0.012 in
G	4.50 ± 0.10 mm	0.177 ± 0.004 in
Mass	(approximate)	120 grams/half

Magnetic Dimensions	A_e - Eff. Mag. Cross Section	6.07 cm²
	L_e - Eff. Mag. Path Length	7.37 cm
	V_e - Eff. Core Volume	44.7 cm³
	WA - Min. Eff. Window Area	1.91 cm²
	sa - Surface Area	115 cm²
	mlt - mean length per turn	12.1 cm
Inductance	μ_i(reference)	60
	A_L value (nominal)	620 nH/N²
	Test Winding	N=TBD, #TBD AWG
	Frequency	10k Hz
	Voltage on Agilent 4284A	TBD
	A_L tolerance	Ref Only

Core Loss

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

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

a=7.8902E+09, b=7.1111E+08, c=8.9801E+06, d=2.8464E-14

B_{pk}	1000	G
frequency	50k	Hz
Core Loss (nominal)	323	mW/cm³
Core Loss (maximum)	372	mW/cm³

DC Saturation

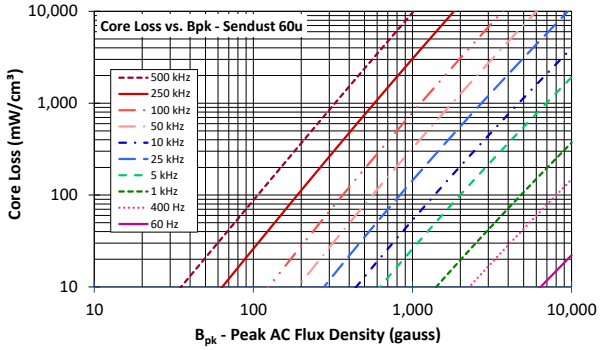
$$\%\mu_i = \frac{1}{a + b \cdot H^c} + d$$

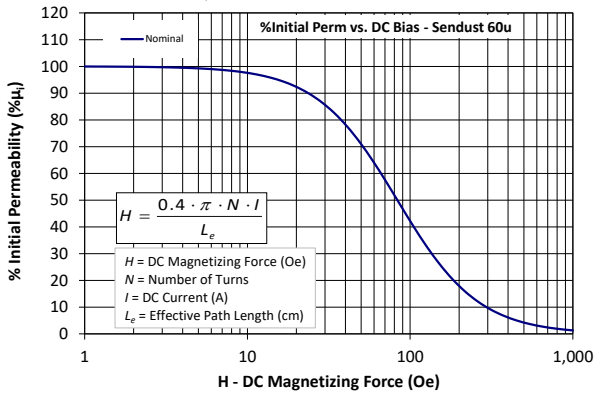
where H expressed in oersteds, and:

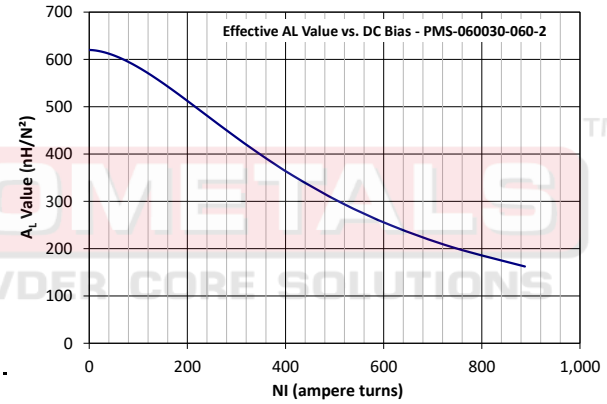
a=1.0000E-02, b=4.4748E-06, c=1.7429, d=0.0000

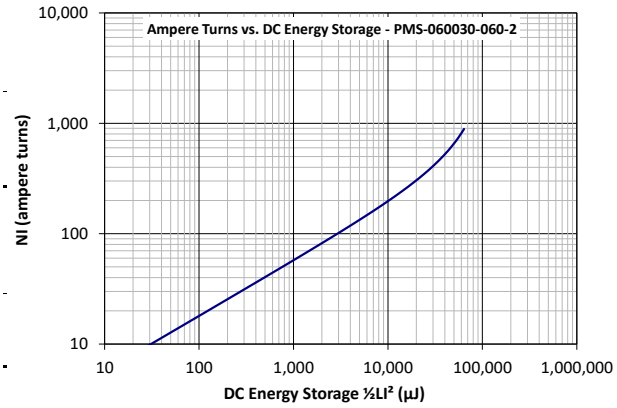
H_{DC}	100	Oe
Percent Initial Perm(nom.)	42.2	%
Percent Initial Perm(min.)	34.7	%

Coating/Pkg	Coating Type:	Blue Epoxy
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	TBD 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	16	25	38	59	91	141	219	338	524	810	1,254
		Rdc(Ω)	6.3 m	15.7 m	37.9 m	93.6 m	229.7 m	565.9 m	1.4	3.4	8.5	20.8	51.2

Special Spec: Preliminary.

Handling and Storage: Cores should be stored in the original unopened packaging between -10°C and +50°C and less than 60% relative humidity. After the original packaging is opened, the cores should be stored between -8°C and +25°C less than 30% relative humidity. Gloves should be used when handling uncoated cores. The cores should also be sheltered from rain, moisture, salt water, salt air, plasters, ashes, sulfur, sulfur dioxide, ammonia sulfates, soils, acids, metals shavings, and solvents.

Operating Temperature: Cores can be used continuously at operating temperatures between -60°C and +200°C.

RoHS 2.0, REACH and ISO (TS16949, ISO 9001, ISO 14001) compliant. Statements available for download at www.micrometalsapc.com.

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