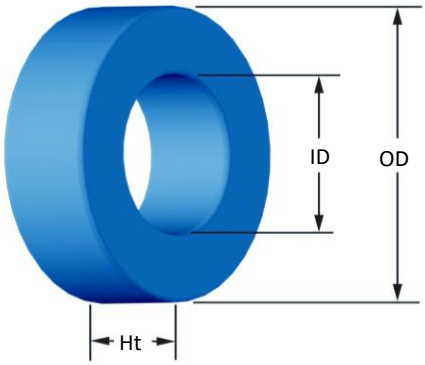
MICROMETALS™
POWDER CORE SOLUTIONS

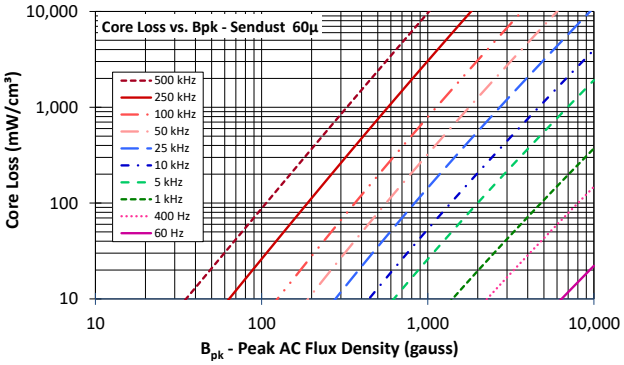
Part Number:	MS-520060-2

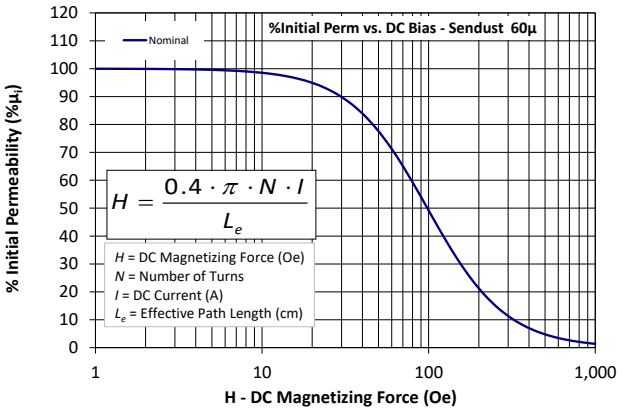
Revision 2021-Dec-01 - Generated 2021-Dec-01

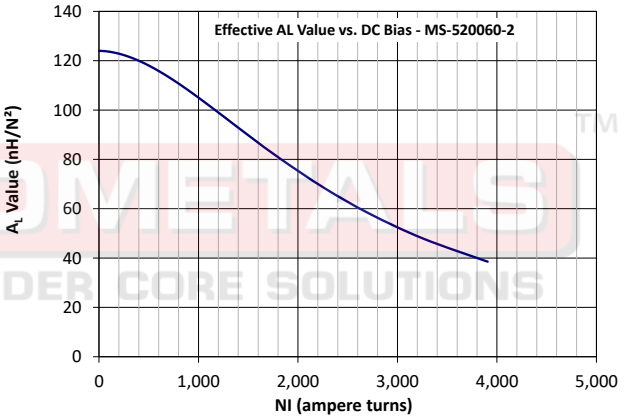


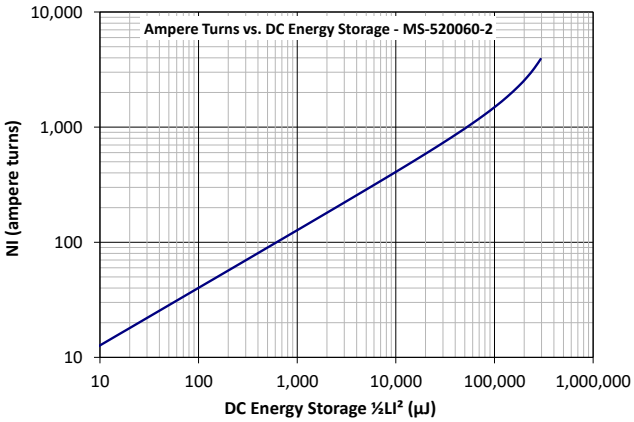
(If coated, Max./Min. includes coating)

OD	(nom. - bare core)	132.54 mm	5.218 in
	(max.)	134.21 mm	5.284 in
ID	(nom. - bare core)	78.59 mm	3.094 in
	(min.)	77.04 mm	3.033 in
HT	(nom. - bare core)	20.32 mm	0.800 in
	(max.)	21.72 mm	0.855 in
Mass	(approximate)	1,000 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	5.35 cm²	
	L_e - Eff. Mag. Path Length	32.429 cm	
	V_e - Eff. Core Volume	173 cm³	
	WA - Min. Eff. Window Area	46.6 cm²	
	sa - Surface Area	515 cm²	
	mlt - mean length per turn	13.9 cm	
Inductance	μ_i(reference)	60	
	A_L value (nominal)	124 nH/N²	
	Test Winding	N=200, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	4.8 V	
	AL tolerance	±8%	
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=7.890E+09, b=7.111E+08, c=8.980E+06, d=2.846E-14		
	B_{pk}	1000 G	
	frequency	50 kHz	
	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=1.000E-02, b=2.151E-06, c=1.841, d=0.000		
	H_{DC}	100 Oe	
	Percent Initial Perm(nom.)	49.2%	
	Percent Initial Perm(min.)	40.9%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	4 Pcs/Box	









Winding Table	**Wire Size**	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	62	78	98	123	154	192	239	298	372	463	577
		Rdc(Ω)	17.7 m	35.5 m	70.9 m	141.5 m	281.8 m	558.8 m	1.1	2.2	4.4	8.6	17.1
	Full Winding	Turns	244	378	584	905	1,400	2,167	3,354	5,191	8,035	12,436	19,248
		Rdc(Ω)	69.8 m	172.0 m	422.6 m	1.0	2.6	6.3	15.5	38.2	94.1	231.6	570.0

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