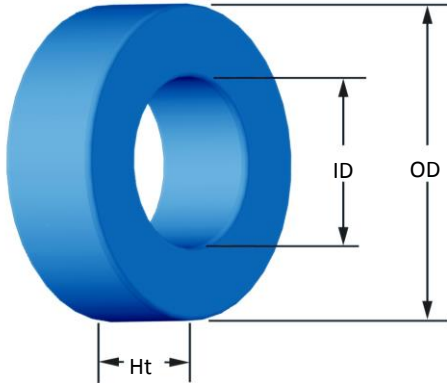




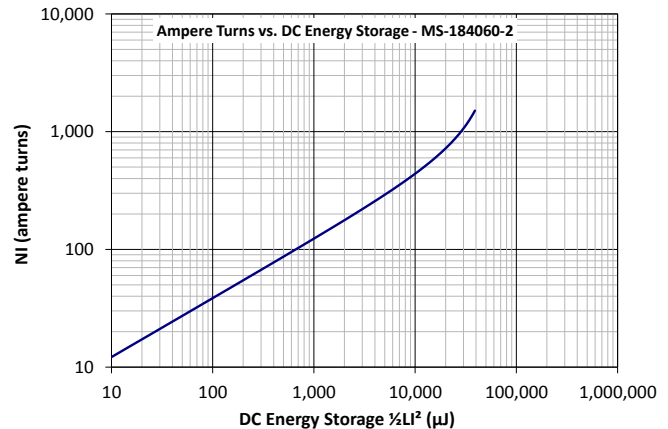
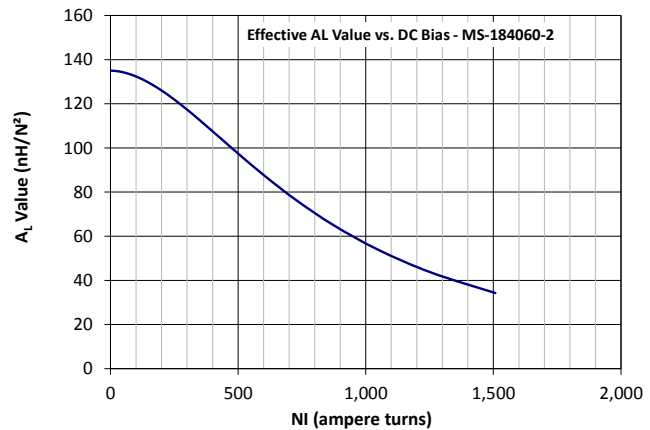
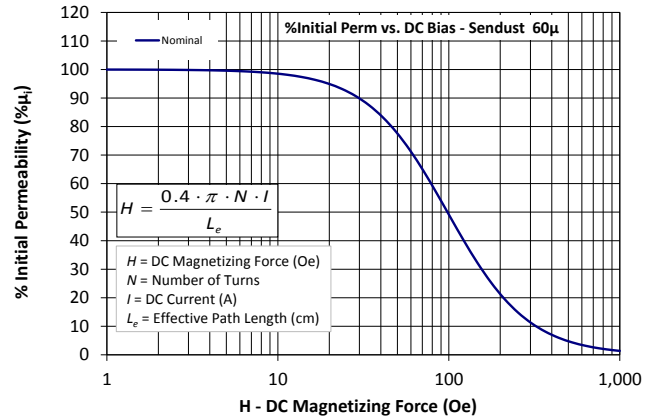
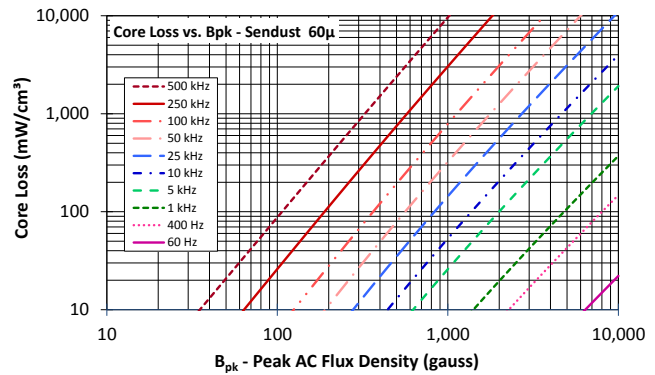
Part Number:

MS-184060-2

Revision 20160414 - Generated 2016-Apr-28



OD	(nom. - bare core) (max. - after coating)	46.74 mm 47.63 mm	1.840 in 1.875 in			
ID	(nom. - bare core) (min. - after coating)	24.13 mm 23.32 mm	0.950 in 0.918 in			
Ht	(nom. - bare core) (max. - after coating)	18.03 mm 18.92 mm	0.710 in 0.745 in			
Mass	(approximate)	120 grams				
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.99 cm ²				
	L _e - Eff. Mag. Path Length	10.743 cm				
	V _e - Eff. Core Volume	21.4 cm ³				
	WA - Min. Eff. Window Area	4.27 cm ²				
	sa - Surface Area	81.7 cm ²				
	mlt - mean length per turn	7.38 cm				
Inductance	μ _i (reference)	60				
	A _L value (nominal)	135 nH/N ²				
	Test Winding	N=70, #20 AWG				
	Frequency	10 kHz				
	Voltage on Agilent 4284A	0.62 V				
	AL tolerance	±8%				
Core Loss	$\text{Core Loss(mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$					
	where <i>B_{pk}</i> expressed in gauss, <i>f</i> expressed in hertz, and: <i>a</i> =7.890E+09, <i>b</i> =7.111E+08, <i>c</i> =8.980E+06, <i>d</i> =2.846E-14					
	B _{pk}	1000 G				
	frequency	50 kHz				
	Core Loss (nominal)	323 mW/cm ³				
Core Loss (maximum)	372 mW/cm ³					
DC Saturation	$\% \mu_i : \frac{1}{a + b \cdot H^c} + d$					
	where H expressed in oersteds, and: <i>a</i> =1.000E-02, <i>b</i> =2.151E-06, <i>c</i> =1.841, <i>d</i> =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	100 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	17	22	28	
		Rdc(Ω)	2.6 m	5.3 m	10.7 m	
	Full Winding	Turns	22	35	54	
		Rdc(Ω)	3.3 m	8.4 m	20.7 m	



Micrometals Alloy Powder Cores, A Division of Micrometals, Inc. - 5615 E. La Palma Ave., Anaheim, California 92807 USA

Ph: +1-714-970-9400, Toll Free in USA: +1-800-356-5977, Asia Pacific Sales: +852 3106 3736

www.MicrometalsAPC.com