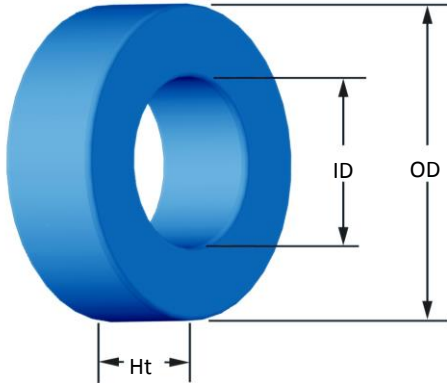




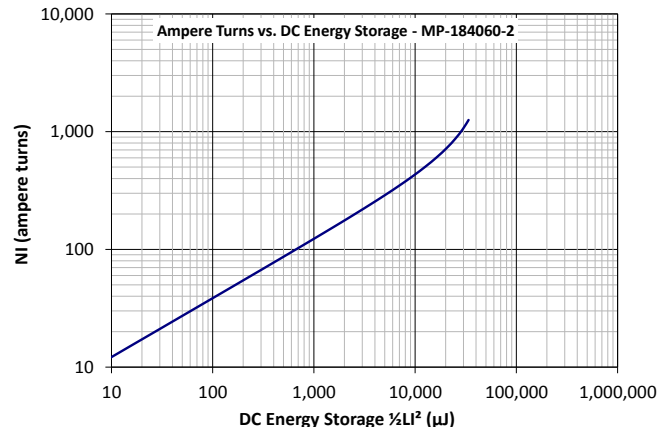
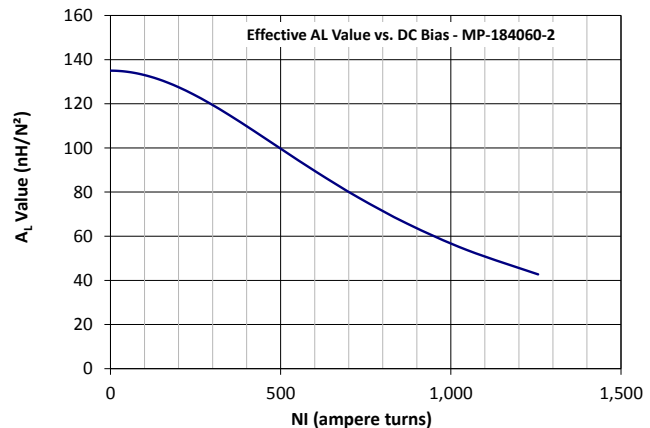
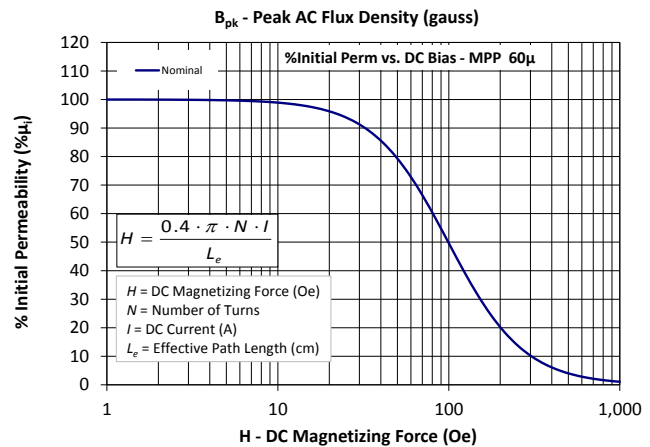
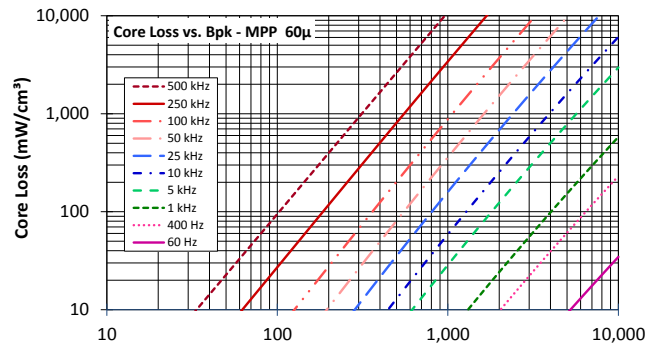
Part Number:

MP-184060-2

Revision 20160414 - Generated 2016-Apr-28



OD	(nom. - bare core)	46.74 mm	1.840 in				
	(max. - after coating)	47.63 mm	1.875 in				
ID	(nom. - bare core)	24.13 mm	0.950 in				
	(min. - after coating)	23.32 mm	0.918 in				
Ht	(nom. - bare core)	18.03 mm	0.710 in				
	(max. - after coating)	18.92 mm	0.745 in				
Mass	(approximate)	160 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> =9.919E+09, <i>b</i> =9.488E+08, <i>c</i> =4.486E+06, <i>d</i> =3.238E-14						
Core Loss	B _{pk}	1000 G					
	frequency	50 kHz					
	Core Loss (nominal)	359 mW/cm ³					
	Core Loss (maximum)	413 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> =1.212E-06, <i>c</i> =1.961, <i>d</i> =0.000						
	H _{DC}	100 Oe					
	Percent Initial Perm(nom.)	49.6%					
Percent Initial Perm(min.)	40.8%						
	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