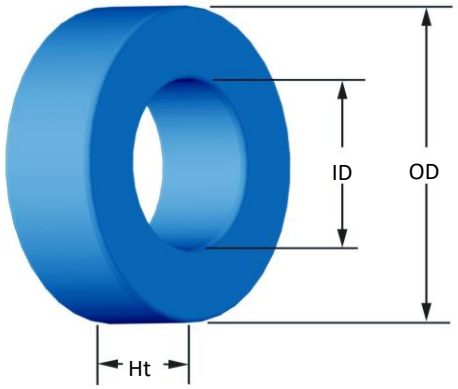
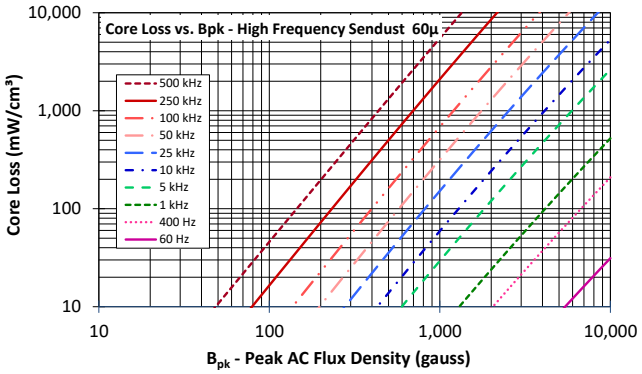
MICROMETALS
ALLOY POWDER CORES

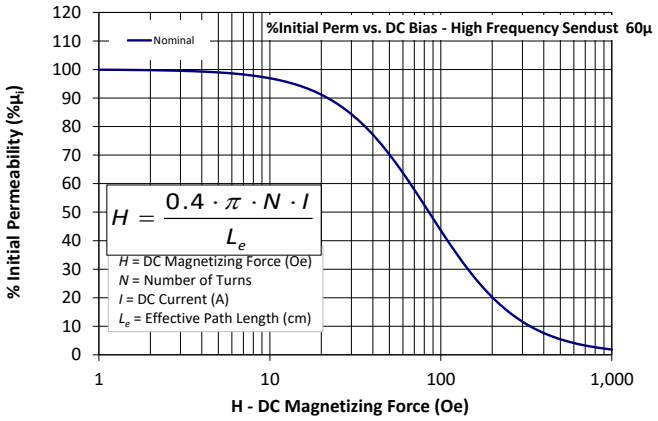
Part Number:	SH-092060-2

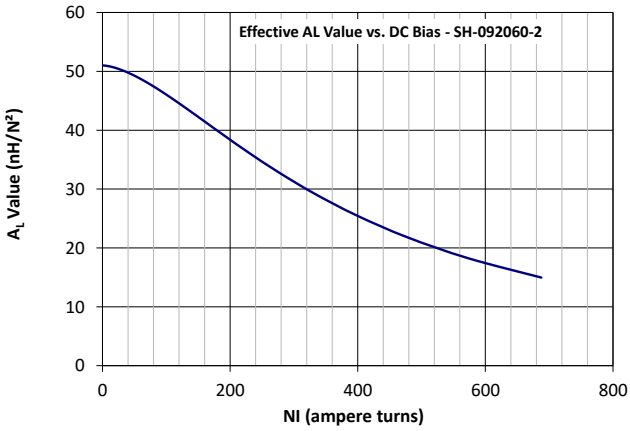
Revision 20170403 - Generated 2017-Apr-03

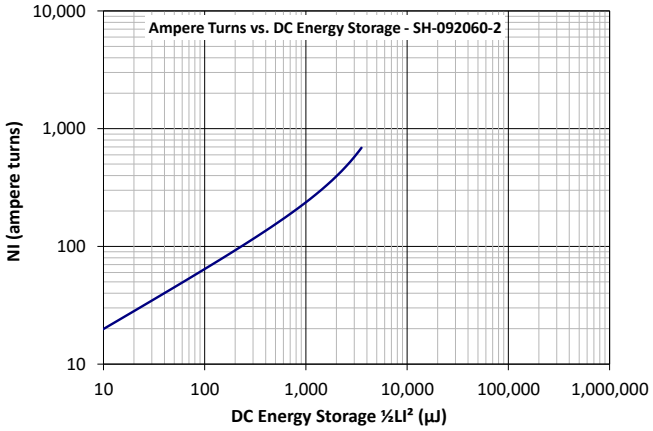


OD	(nom. - bare core)	23.57 mm	0.928 in
	(max. - after coating)	24.28 mm	0.956 in
ID	(nom. - bare core)	14.40 mm	0.567 in
	(min. - after coating)	13.77 mm	0.542 in
Ht	(nom. - bare core)	8.89 mm	0.350 in
	(max. - after coating)	9.70 mm	0.382 in
Mass	(approximate)	13 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.388 cm²	
	L_e - Eff. Mag. Path Length	5.88 cm	
	V_e - Eff. Core Volume	2.28 cm³	
	WA - Min. Eff. Window Area	1.49 cm²	
	sa - Surface Area	21.8 cm²	
	mlt - mean length per turn	3.68 cm	
Inductance	μ_i(reference)	60	
	A_L value (nominal)	51 nH/N²	
	Test Winding	N=80, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.14 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=1.000E+06, b=8.801E+08, c=5.421E+06, d=1.033E-14		
	B_{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	317 mW/cm³	
	Core Loss (maximum)	365 mW/cm³	
DC Saturation	$\%\mu_i \cdot \frac{1}{a+b\cdot H^c}+d$		
	where H expressed in oersteds, and:		
	a=1.000E-02, b=7.724E-06, c=1.612, d=0.000		
	H_{DC}	100 Oe	
	Percent Initial Perm(nom.)	43.6%	
	Percent Initial Perm(min.)	36.5%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	1,089 Pcs/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
	Single Layer	Turns	12	15	20	25	32	40	51	64	80	101	126
		Rdc(Ω)	1.4 m	2.9 m	6.1 m	12.1 m	24.6 m	49.0 m	99.3 m	198.2 m	394.0 m	791.0 m	1.6
	Full Winding	Turns	12	19	29	45	69	107	166	257	397	615	952
		Rdc(Ω)	1.4 m	3.6 m	8.8 m	21.8 m	53.1 m	131.0 m	323.2 m	795.8 m	2.0	4.8	11.9

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