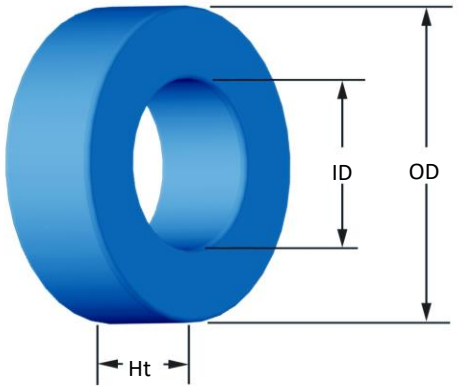
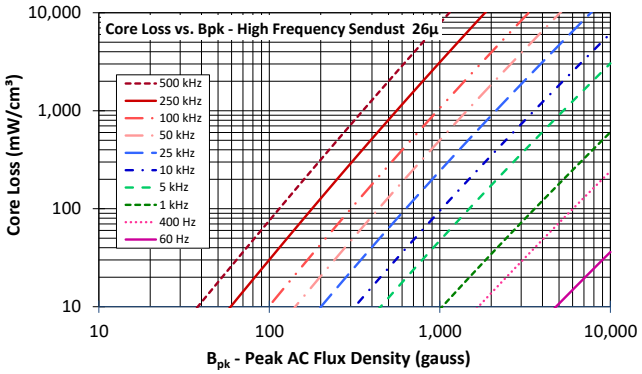
MICROMETALS
ALLOY POWDER CORES

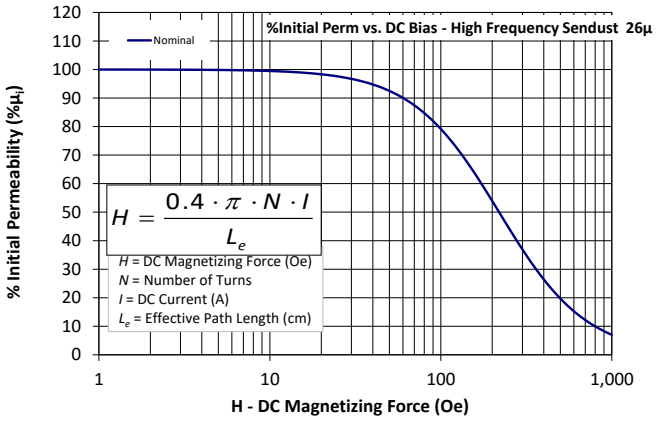
Part Number:	SH-068026-2

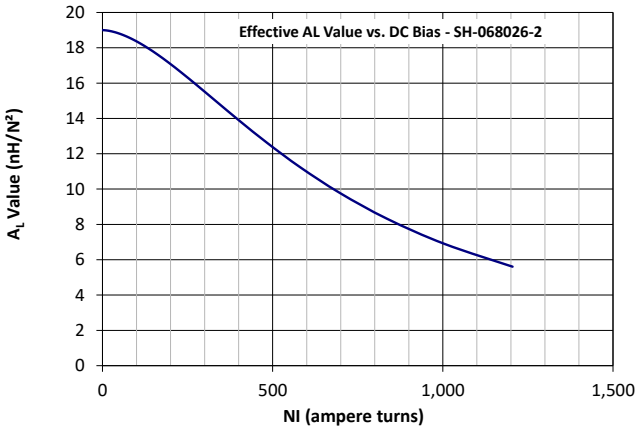
Revision 20170403 - Generated 2017-Apr-03

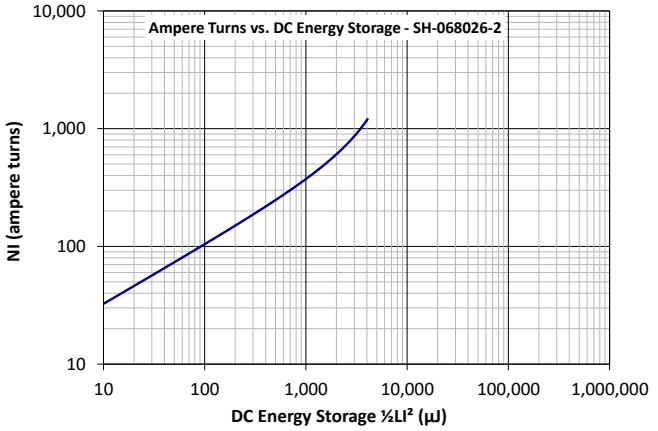


OD	(nom. - bare core)	17.27 mm	0.680 in
	(max. - after coating)	18.03 mm	0.710 in
ID	(nom. - bare core)	9.65 mm	0.380 in
	(min. - after coating)	9.02 mm	0.355 in
Ht	(nom. - bare core)	6.35 mm	0.250 in
	(max. - after coating)	7.11 mm	0.280 in
Mass	(approximate)	5.0 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.232 cm²	
	L_e - Eff. Mag. Path Length	4.14 cm	
	V_e - Eff. Core Volume	0.961 cm³	
	WA - Min. Eff. Window Area	0.639 cm²	
	sa - Surface Area	11.7 cm²	
	mlt - mean length per turn	2.77 cm	
Inductance	μ_i(reference)	26	
	A_L value (nominal)	19 nH/N²	
	Test Winding	N=70, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.072 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=3.287E+08, c=5.779E+06, d=1.240E-14		
	B_{pk}	500 G	
	frequency	100 kHz	
	Core Loss (nominal)	277 mW/cm³	
	Core Loss (maximum)	318 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=1.042E-06, c=1.701, d=0.000		
	H_{DC}	200 Oe	
	Percent Initial Perm(nom.)	53.9%	
	Percent Initial Perm(min.)	46.1%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	2,340 Pcs/Box	









Winding Table	**Wire Size**	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	Single Layer	Turns	12	15	20	26	32	41	52	65	82	102	128
		Rdc(Ω)	2.8 m	5.5 m	11.6 m	24.0 m	47.0 m	95.7 m	193.1 m	383.8 m	770.0 m	1.5	3.0
	Full Winding	Turns	12	19	30	46	71	110	170	264	408	632	978
		Rdc(Ω)	2.8 m	6.9 m	17.4 m	42.5 m	104.2 m	256.8 m	631.1 m	1.6	3.8	9.4	23.2

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