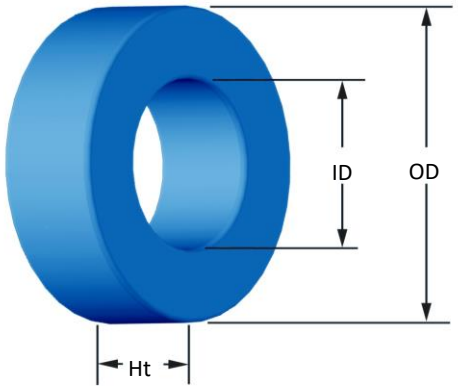
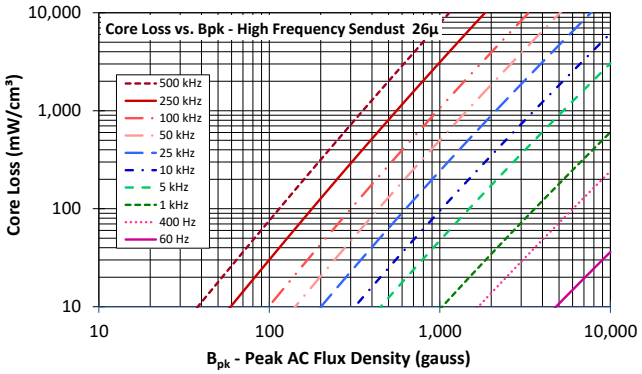
MICROMETALS
ALLOY POWDER CORES

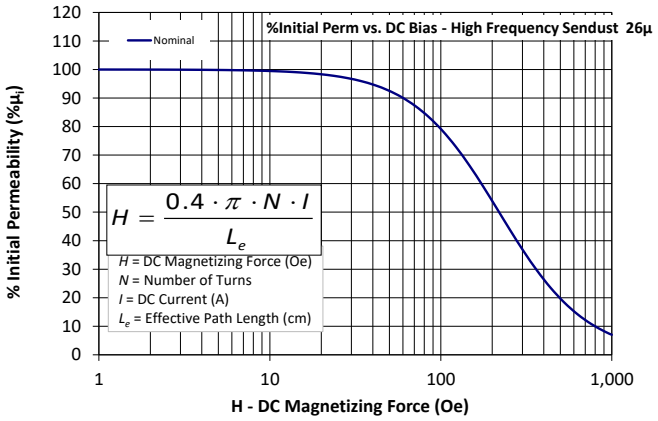
Part Number:	SH-090026-2

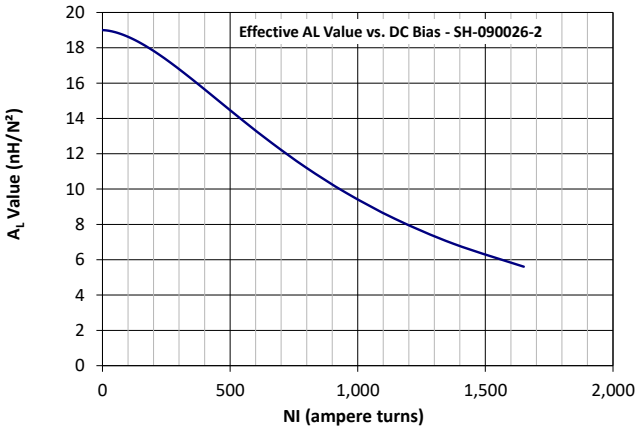
Revision 20170403 - Generated 2017-Apr-03

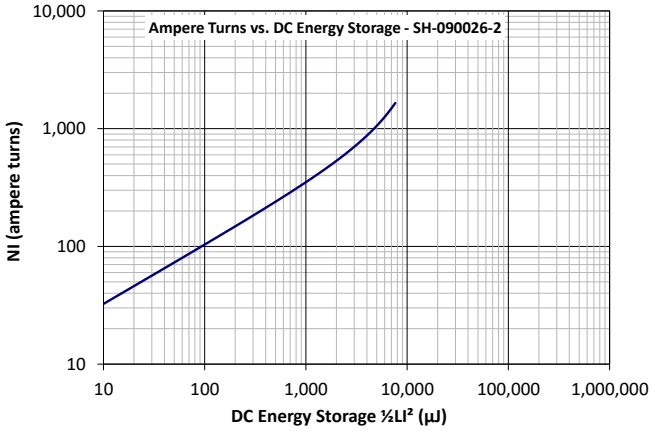


OD	(nom. - bare core)	22.86 mm	0.900 in
	(max. - after coating)	23.62 mm	0.930 in
ID	(nom. - bare core)	13.97 mm	0.550 in
	(min. - after coating)	13.39 mm	0.527 in
Ht	(nom. - bare core)	7.62 mm	0.300 in
	(max. - after coating)	8.38 mm	0.330 in
Mass	(approximate)	9.7 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.331 cm²	
	L_e - Eff. Mag. Path Length	5.67 cm	
	V_e - Eff. Core Volume	1.88 cm³	
	WA - Min. Eff. Window Area	1.41 cm²	
	sa - Surface Area	19.8 cm²	
	mlt - mean length per turn	3.37 cm	
Inductance	μ_i(reference)	26	
	A_L value (nominal)	19 nH/N²	
	Test Winding	N=80, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.12 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	$\%\mu_i = \frac{1}{a+b\cdot H^c}+d$		
	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	1,210 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	11	15	19	24	31	39	50	62	78	98	123
		Rdc(Ω)	1.2 m	2.6 m	5.3 m	10.6 m	21.8 m	43.7 m	89.1 m	175.8 m	351.6 m	702.7 m	1.4
	Full Winding	Turns	11	18	27	42	65	101	157	243	376	581	900
		Rdc(Ω)	1.2 m	3.2 m	7.5 m	18.6 m	45.8 m	113.2 m	279.8 m	688.8 m	1.7	4.2	10.3

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