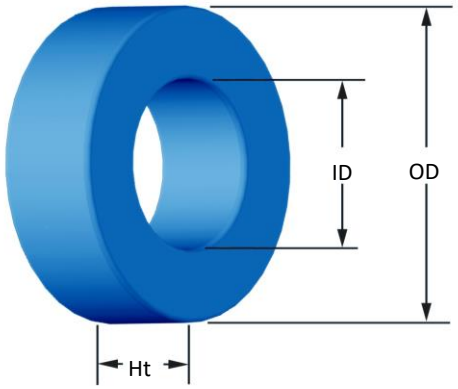
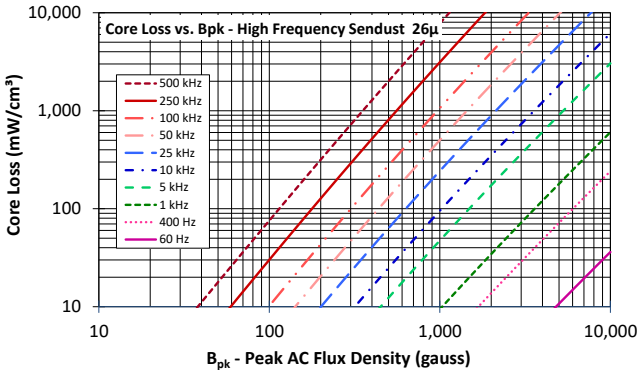
MICROMETALS
ALLOY POWDER CORES

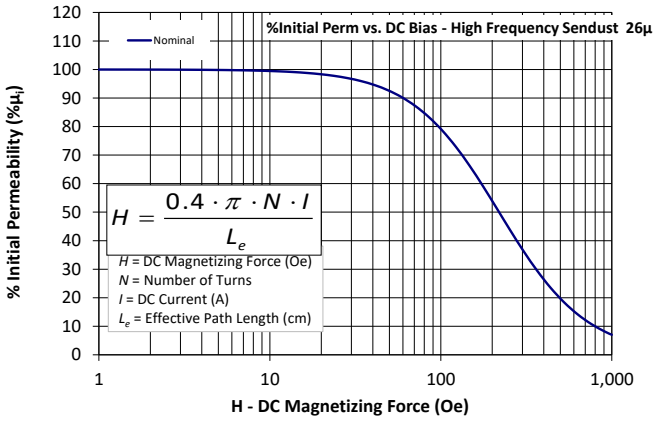
Part Number:	SH-226026-2

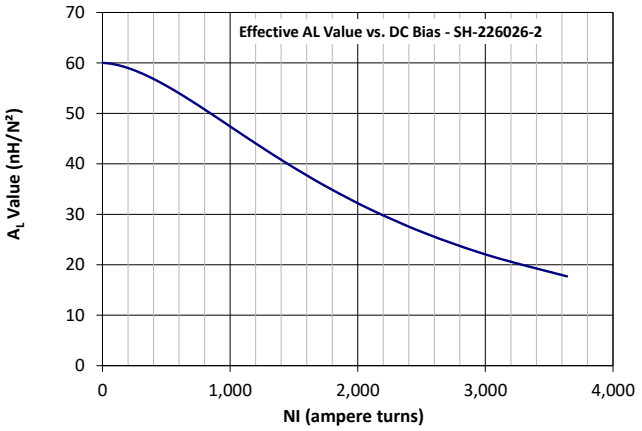
Revision 20170403 - Generated 2017-Apr-03

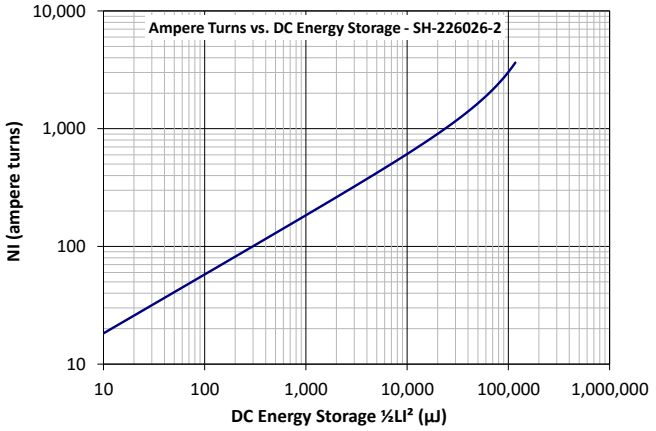


OD	(nom. - bare core)	57.15 mm	2.250 in
	(max. - after coating)	58.04 mm	2.285 in
ID	(nom. - bare core)	26.39 mm	1.039 in
	(min. - after coating)	25.58 mm	1.007 in
Ht	(nom. - bare core)	15.24 mm	0.600 in
	(max. - after coating)	16.13 mm	0.635 in
Mass	(approximate)	150 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	2.29 cm²	
	L_e - Eff. Mag. Path Length	12.506 cm	
	V_e - Eff. Core Volume	28.6 cm³	
	WA - Min. Eff. Window Area	5.14 cm²	
	sa - Surface Area	105 cm²	
	mlt - mean length per turn	7.75 cm	
Inductance	μ_i(reference)	26	
	A_L value (nominal)	60 nH/N²	
	Test Winding	N=60, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.61 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	80 Pcs/Box	









Winding Table	**Wire Size**	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	19	24	31	39	49	62	78	97	122	152	190
		Rdc(Ω)	3.0 m	6.1 m	12.5 m	25.0 m	50.0 m	100.5 m	201.2 m	397.8 m	795.8 m	1.6	3.1
	Full Winding	Turns	27	42	64	100	154	239	370	572	886	1,371	2,122
		Rdc(Ω)	4.3 m	10.6 m	25.8 m	64.1 m	157.0 m	387.5 m	954.2 m	2.3	5.8	14.2	35.0

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