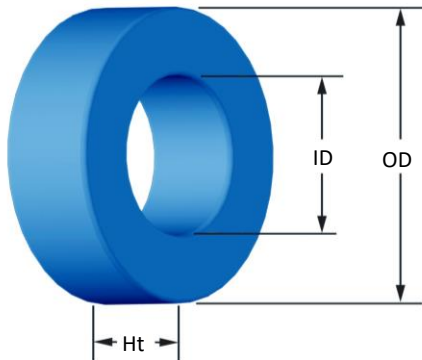




Part Number:

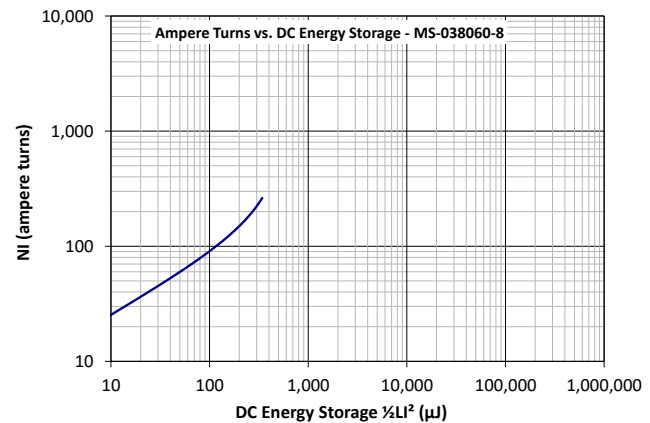
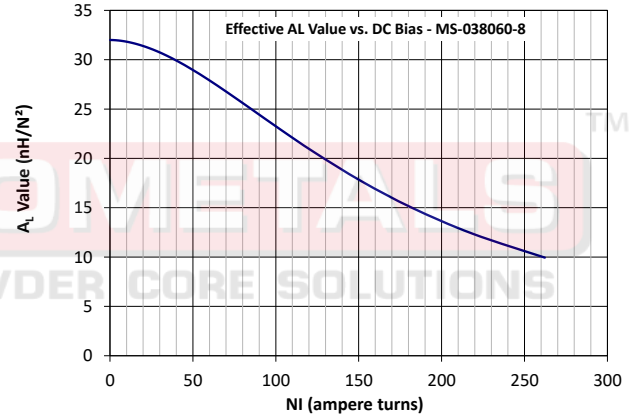
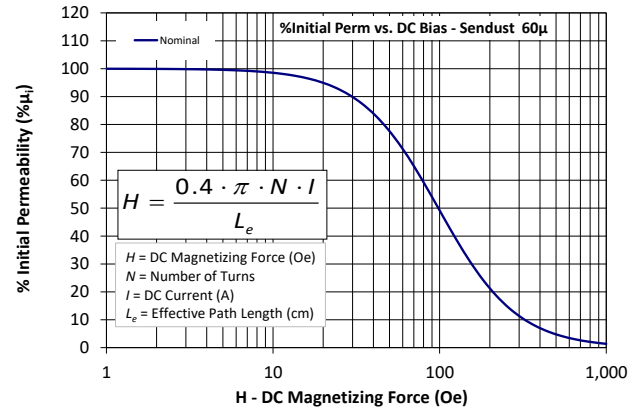
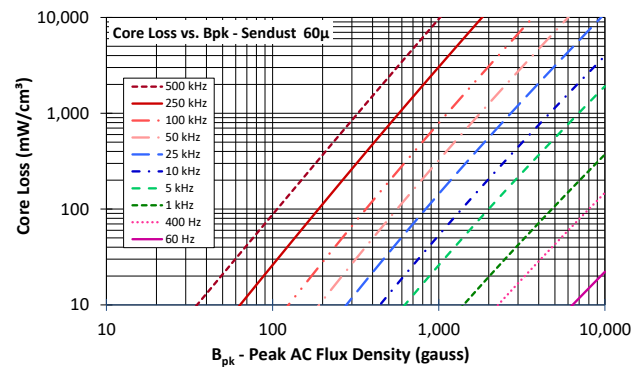
MS-038060-8

Revision 2021-Dec-01 - Generated 2021-Dec-01



(If coated, Max./Min. includes coating)

OD	(nom. - bare core) (max.)	9.65 mm 10.29 mm	0.380 in 0.405 in
ID	(nom. - bare core) (min.)	4.78 mm 4.27 mm	0.188 in 0.168 in
HT	(nom. - bare core) (max.)	3.96 mm 4.57 mm	0.156 in 0.180 in
Mass	(approximate)	1.2 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0945 cm ²	
	L _e - Eff. Mag. Path Length	2.18 cm	
	V _e - Eff. Core Volume	0.206 cm ³	
	WA - Min. Eff. Window Area	0.143 cm ²	
	sa - Surface Area	3.88 cm ²	
Inductance	mlt - mean length per turn	1.73 cm	
	μ _i (reference)	60	
	A _L value (nominal)	32 nH/N ²	
	Test Winding	N=45, #30 AWG	
	Frequency	10 kHz	
Core Loss	Voltage on Agilent 4284A	0.019 V	
	AL tolerance	±12%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=7.890E+09, b=7.111E+08, c=8.980E+06, d=2.846E-14		
	B _{pk}	1000 G	
DC Saturation	frequency	50 kHz	
	Core Loss (nominal)	323 mW/cm ³	
	Core Loss (maximum)	372 mW/cm ³	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=2.151E-06, c=1.841, d=0.000		
Coating/Pkg	H _{DC}	100 Oe	
	Percent Initial Perm(nom.)	49.2%	
	Percent Initial Perm(min.)	40.9%	
	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	10,800 Pcs/Box	
	Wire Size	AWG	20
		mm	0.800
	Single Layer	Turns	11
		Rdc(Ω)	6.3 m
	Full Winding	Turns	10
		Rdc(Ω)	5.8 m



Winding Table	Wire Size	AWG	20	22	24	26	28	30	32	34	36	38	40
		mm	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080
	Single Layer	Turns	11	14	18	23	29	37	47	59	74	93	116
		Rdc(Ω)	6.3 m	12.8 m	26.2 m	53.2 m	106.8 m	216.6 m	437.6 m	873.7 m	1.7	3.5	6.9
	Full Winding	Turns	10	16	25	38	59	92	142	219	339	525	813
		Rdc(Ω)	5.8 m	14.6 m	36.4 m	88.0 m	217.2 m	538.6 m	1.3	3.2	8.0	19.7	48.4