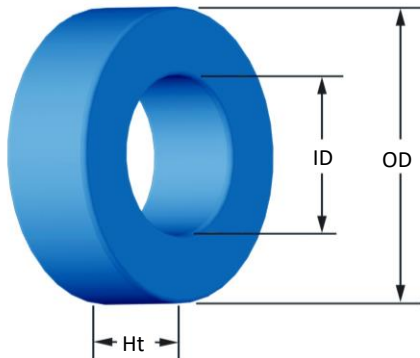




Part Number:

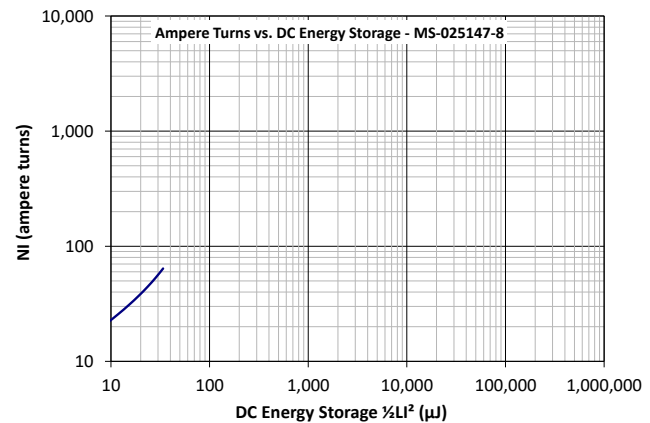
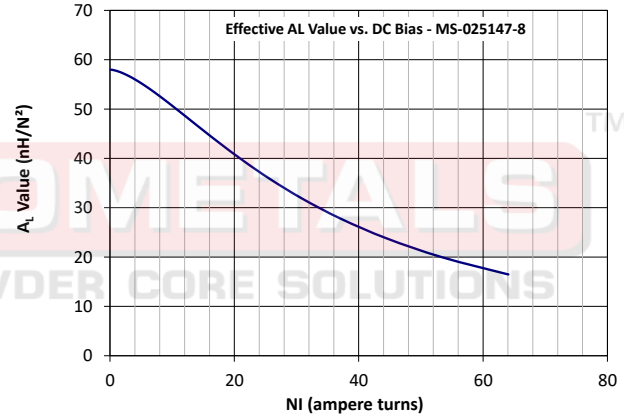
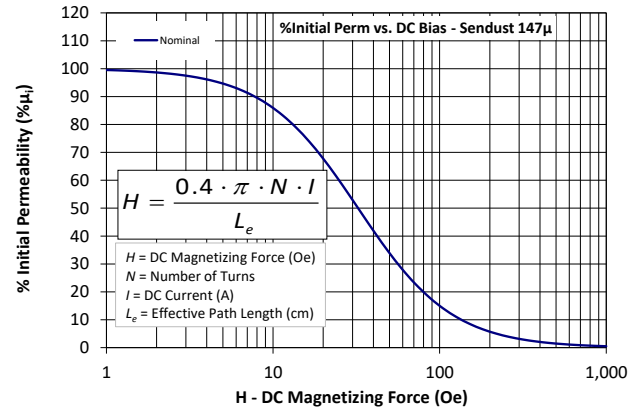
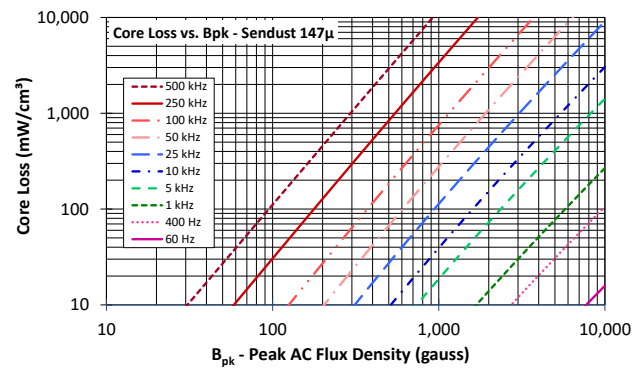
MS-025147-8

Revision 2022-Apr-28



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

OD	(nom. - bare core) (max.)	6.35 mm 6.99 mm	0.250 in 0.275 in
ID	(nom. - bare core) (min.)	2.79 mm 2.29 mm	0.110 in 0.090 in
HT	(nom. - bare core) (max.)	2.79 mm 3.43 mm	0.110 in 0.135 in
Mass	(approximate)	0.38 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0476 cm ²	
	L _e - Eff. Mag. Path Length	1.36 cm	
	V _e - Eff. Core Volume	0.0642 cm ³	
	WA - Min. Eff. Window Area	0.0412 cm ²	
	sa - Surface Area	1.80 cm ²	
Inductance	mlt - mean length per turn	1.27 cm	
	μ _i (reference)	147	
	A _L value (nominal)	58 nH/N ²	
	Test Winding	N=30, #32 AWG	
	Frequency	10 kHz	
Core Loss	Voltage on Agilent 4284A	0.006 V	
	AL tolerance	±12%	
	Core Loss(mW/cm ³):	$\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=1.394E+10, b=1.034E+09, c=1.244E+07, d=4.007E-14	
	B _{pk}	1000 G	
DC Saturation	frequency	50 kHz	
	Core Loss (nominal)	276 mW/cm ³	
	Core Loss (maximum)	318 mW/cm ³	
	%μ _i	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.000E-02, b=4.732E-05, c=1.539, d=0.000	
Coating/Pkg	H _{DC}	40 Oe	
	Percent Initial Perm(nom.)	42.0%	
	Percent Initial Perm(min.)	35.3%	
	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	21,600 Pcs/Box	
	Wire Size	AWG	26
		mm	0.400
	Single Layer	Turns	11
		Rdc(Ω)	18.7 m
	Full Winding	Turns	17
		Rdc(Ω)	46.0 m



Winding Table	Wire Size	AWG	26	28	30	32	34	36	38	40	42	44	-
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-
	Single Layer	Turns	11	14	19	24	30	38	49	61	77	96	-
		Rdc(Ω)	18.7 m	37.9 m	81.7 m	164.2 m	326.3 m	657.4 m	1.3	2.7	5.4	10.6	-
	Full Winding	Turns	11	17	26	41	63	98	151	234	362	560	-
		Rdc(Ω)	18.7 m	46.0 m	111.8 m	280.4 m	685.3 m	1.7	4.2	10.2	25.2	62.0	-