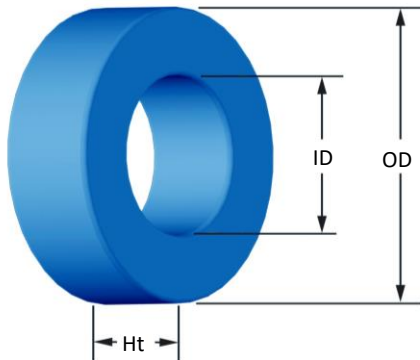




Part Number:

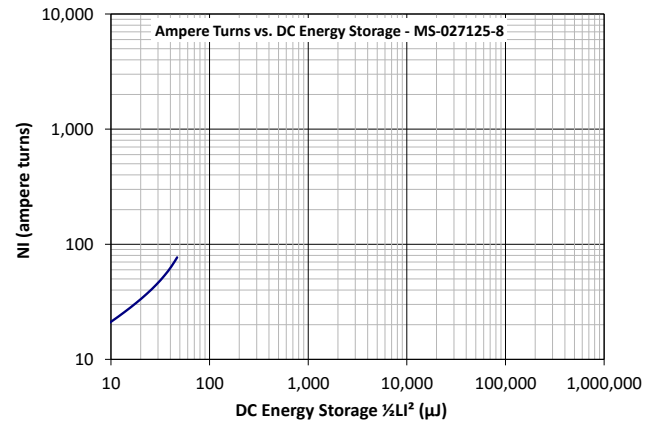
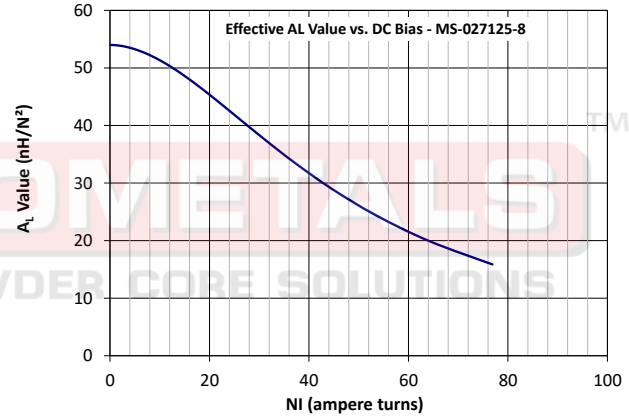
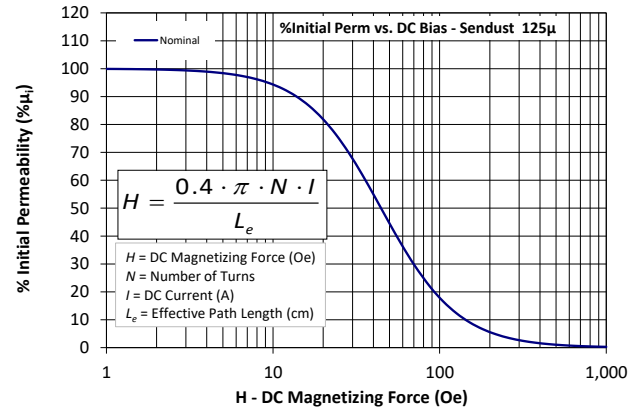
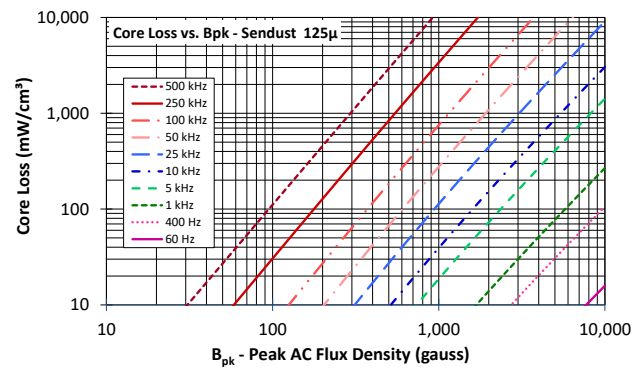
MS-027125-8

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



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

OD	(nom. - bare core) (max.)	6.60 mm 7.24 mm	0.260 in 0.285 in
ID	(nom. - bare core) (min.)	2.67 mm 2.29 mm	0.105 in 0.090 in
HT	(nom. - bare core) (max.)	2.54 mm 3.18 mm	0.100 in 0.125 in
Mass	(approximate)	0.38 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.0467 cm ²	
	L_e - Eff. Mag. Path Length	1.36 cm	
	V_e - Eff. Core Volume	0.0640 cm ³	
	W_A - Min. Eff. Window Area	0.0412 cm ²	
	S_A - Surface Area	1.83 cm ²	
Inductance	μ_i (reference)	125	
	A_L value (nominal)	54 nH/N ²	
	Test Winding	N=35, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.007 V	
Core Loss	AL tolerance	±12%	
	Core Loss(mW/cm ³):	$\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B_{pk} expressed in gauss, f expressed in hertz, and:	$a=1.394E+10, b=1.034E+09, c=1.244E+07, d=4.007E-14$	
	B_{pk}	1000 G	
	frequency	50 kHz	
DC Saturation	Core Loss (nominal)	276 mW/cm ³	
	Core Loss (maximum)	318 mW/cm ³	
	$\% \mu_i \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and:	$a=1.000E-02, b=7.884E-06, c=1.883, d=0.000$	
	H_{DC}	40 Oe	
Coating/Pkg	Percent Initial Perm(nom.)	55.0%	
	Percent Initial Perm(min.)	46.4%	
	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
	Limit	0.1 mA, 5 s	
Winding Table	Package Quantity	21,600 Pcs/Box	
	Wire Size	AWG	26
		mm	0.400
	Single Layer	Turns	11
	Full Winding	Turns	17



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)	18.3 m	37.1 m	80.1 m	160.9 m	319.9 m	644.5 m	1.3	2.6	5.3	10.4	-
	Full Winding	Turns	11	17	26	41	63	98	151	234	362	560	-
		Rdc(Ω)	18.3 m	45.1 m	109.6 m	274.9 m	671.8 m	1.7	4.1	10.0	24.7	60.8	-