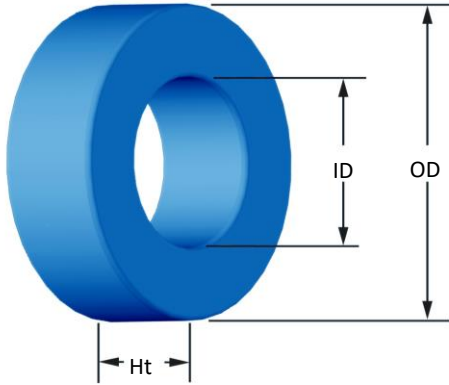




Part Number: **SH-068125-2**

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	17.27 mm 18.03 mm	0.680 in 0.710 in
ID	(nom. - bare core) (min. - after coating)	9.65 mm 9.02 mm	0.380 in 0.355 in
Ht	(nom. - bare core) (max. - after coating)	6.35 mm 7.11 mm	0.250 in 0.280 in
Mass	(approximate)	5.5 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section L_e - Eff. Mag. Path Length V_e - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	0.232 cm ² 4.14 cm 0.961 cm ³ 0.639 cm ² 11.7 cm ² 2.77 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 89 nH/N ² N=70, #28 AWG 10 kHz 0.072 V ±8%	
Core Loss	Core Loss (mW/cm ³) = $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ where B_{pk} expressed in gauss, f expressed in hertz, and: $a=7.985E+09$, $b=1.378E+09$, $c=4.041E+06$, $d=7.891E-15$ B_{pk} frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 kHz 240 mW/cm ³ 276 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=3.265E-05$, $c=1.587$, $d=0.000$ H_{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	40 Oe 46.8% 39.7%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 2,340 Pcs/Box	
Winding Table	Wire Size	AWG	14 16 18 20 22 24 26 28 30 32 34
		mm	1.60 1.250 1.000 0.800 0.630 0.500 0.400 0.315 0.250 0.200 0.160
	Single Layer	Turns	12 15 20 26 32 41 52 65 82 102 128
		Rdc(Ω)	2.8 m 5.5 m 11.6 m 24.0 m 47.0 m 95.7 m 193.1 m 383.8 m 770.0 m 1.5 3.0
Full Winding	Turns	12 19 30 46 71 110 170 264 408 632 978	
	Rdc(Ω)	2.8 m 6.9 m 17.4 m 42.5 m 104.2 m 256.8 m 631.1 m 1.6 3.8 9.4 23.2	

