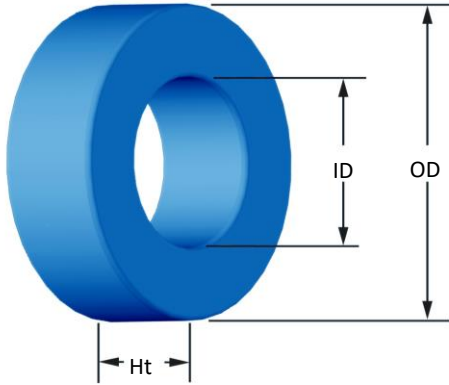




Part Number: **SH-092125-2**

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	23.57 mm 24.28 mm	0.928 in 0.956 in
ID	(nom. - bare core) (min. - after coating)	14.40 mm 13.77 mm	0.567 in 0.542 in
Ht	(nom. - bare core) (max. - after coating)	8.89 mm 9.70 mm	0.350 in 0.382 in
Mass	(approximate)	13 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	0.388 cm ² 5.88 cm 2.28 cm ³ 1.49 cm ² 21.8 cm ² 3.68 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 105 nH/N ² N=80, #26 AWG 10 kHz 0.14 V ±8%	
Core Loss	Core Loss(mW/cm ³) = $\frac{f}{a + b \cdot B_{pk}^3 + c \cdot B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ 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 1,089 Pcs/Box	
Winding Table	Wire Size	AWG	10 12 14 16 18 20 22 24 26 28 30
		mm	2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315 0.250
	Single Layer	Turns	12 15 20 25 32 40 51 64 80 101 126
		Rdc(Ω)	1.4 m 2.9 m 6.1 m 12.1 m 24.6 m 49.0 m 99.3 m 198.2 m 394.0 m 791.0 m 1.6
Full Winding	Turns	12 19 29 45 69 107 166 257 397 615 952	
	Rdc(Ω)	1.4 m 3.6 m 8.8 m 21.8 m 53.1 m 131.0 m 323.2 m 795.8 m 2.0 4.8 11.9	

