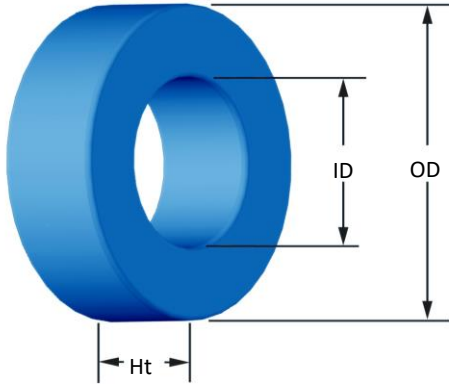




Part Number: **SH-184125-2**

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	46.74 mm 47.63 mm	1.840 in 1.875 in
ID	(nom. - bare core) (min. - after coating)	24.13 mm 23.32 mm	0.950 in 0.918 in
Ht	(nom. - bare core) (max. - after coating)	18.03 mm 18.92 mm	0.710 in 0.745 in
Mass	(approximate)	120 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	1.99 cm ² 10.743 cm 21.4 cm ³ 4.27 cm ² 81.7 cm ² 7.38 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 281 nH/N ² N=70, #20 AWG 10 kHz 0.62 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 100 Pcs/Box	
Winding Table	Wire Size	AWG	8 10 12 14 16 18 20 22 24 26 28
		mm	3.150 2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315
	Single Layer	Turns	17 22 28 35 45 56 70 88 111 138 173
		Rdc(Ω)	2.6 m 5.3 m 10.7 m 21.4 m 43.7 m 86.5 m 171.9 m 343.7 m 689.5 m 1.4 2.7
Full Winding	Turns	22 35 54 83 128 199 307 476 736 1,139 1,764	
	Rdc(Ω)	3.3 m 8.4 m 20.7 m 50.7 m 124.3 m 307.3 m 753.9 m 1.9 4.6 11.3 27.7	

