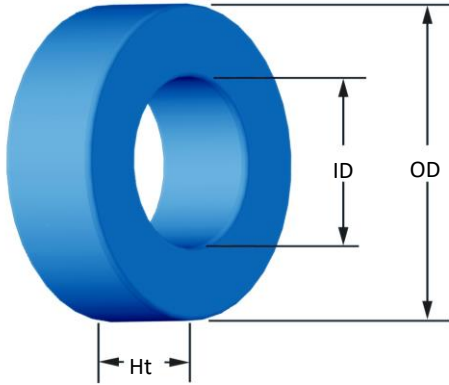




Part Number: SH-200125-2

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	50.80 mm 51.69 mm	2.000 in 2.035 in
ID	(nom. - bare core) (min. - after coating)	31.75 mm 30.94 mm	1.250 in 1.218 in
Ht	(nom. - bare core) (max. - after coating)	13.46 mm 14.35 mm	0.530 in 0.565 in
Mass	(approximate)	91 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	1.25 cm ² 12.733 cm 15.9 cm ³ 7.52 cm ² 88.2 cm ² 6.49 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 152 nH/N ² N=70, #18 AWG 10 kHz 0.39 V ±8%	
Core Loss	Core Loss (mW/cm ³) = $\frac{f}{a + b \cdot f + c \cdot f^2} + d \cdot B_{pk}^2 \cdot f^2$ 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 125 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	23 30 38 48 60 75 94 118 148 184 230
		Rdc(Ω)	3.1 m 6.4 m 12.8 m 25.8 m 51.2 m 101.9 m 203.0 m 405.4 m 808.6 m 1.6 3.2
Full Winding	Turns	39 61 94 146 226 350 541 837 1,296 2,006 3,104	
	Rdc(Ω)	5.2 m 12.9 m 31.7 m 78.4 m 193.0 m 475.3 m 1.2 2.9 7.1 17.4 42.9	

