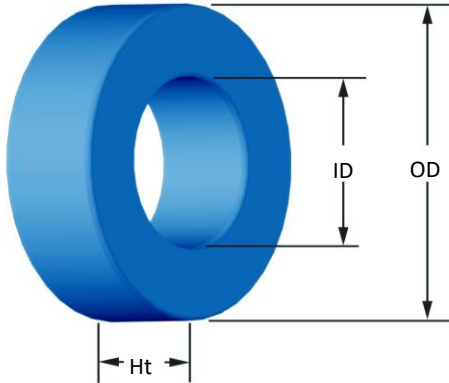




Part Number: **SH-080125-2**

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	20.32 mm 21.08 mm	0.800 in 0.830 in
ID	(nom. - bare core) (min. - after coating)	12.70 mm 12.07 mm	0.500 in 0.475 in
Ht	(nom. - bare core) (max. - after coating)	6.35 mm 7.11 mm	0.250 in 0.280 in
Mass	(approximate)	6.6 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	0.226 cm ² 5.09 cm 1.15 cm ³ 1.14 cm ² 15.5 cm ² 2.93 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 68 nH/N ² N=90, #28 AWG 10 kHz 0.090 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 1,800 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	10 13 17 22 28 35 44 56 70 88 110
		Rdc(Ω)	1.0 m 2.0 m 4.1 m 8.5 m 17.1 m 34.1 m 68.1 m 137.9 m 274.2 m 548.2 m 1.1
Full Winding	Turns	9 14 22 34 53 82 127 197 305 472 731	
	Rdc(Ω)	0.9 m 2.1 m 5.3 m 13.1 m 32.4 m 79.8 m 196.7 m 485.2 m 1.2 2.9 7.2	

