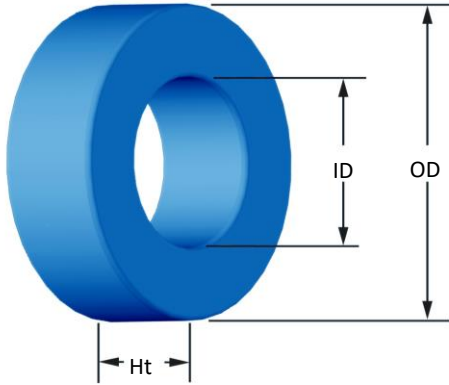




Part Number: **SH-226125-2**

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	57.15 mm 58.04 mm	2.250 in 2.285 in
ID	(nom. - bare core) (min. - after coating)	26.39 mm 25.58 mm	1.039 in 1.007 in
Ht	(nom. - bare core) (max. - after coating)	15.24 mm 16.13 mm	0.600 in 0.635 in
Mass	(approximate)	160 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	2.29 cm ² 12.506 cm 28.6 cm ³ 5.14 cm ² 105 cm ² 7.75 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 287 nH/N ² N=60, #18 AWG 10 kHz 0.61 V $\pm 8\%$	
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 80 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	19 24 31 39 49 62 78 97 122 152 190
		Rdc(Ω)	3.0 m 6.1 m 12.5 m 25.0 m 50.0 m 100.5 m 201.2 m 397.8 m 795.8 m 1.6 3.1
Full Winding	Turns	27 42 64 100 154 239 370 572 886 1,371 2,122	
	Rdc(Ω)	4.3 m 10.6 m 25.8 m 64.1 m 157.0 m 387.5 m 954.2 m 2.3 5.8 14.2 35.0	

