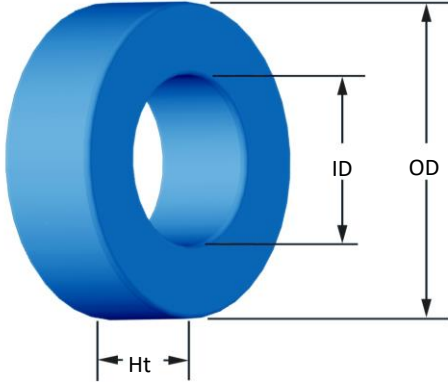




Part Number:

SH-225125-2

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)	35.56 mm 34.75 mm	1.400 in 1.368 in
Ht	(nom. - bare core) (max. - after coating)	13.97 mm 14.86 mm	0.550 in 0.585 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	1.44 cm ² 14.296 cm 20.7 cm ³ 9.48 cm ² 109 cm ² 7.04 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 156 nH/N ² N=80, #18 AWG 10 kHz 0.51 V ±8%	
Core Loss	Core Loss (mW/cm ³) = $\frac{f}{a + \frac{b}{B_{pk}^3} + \frac{c}{B_{pk}^{2.3}} + \frac{d}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ 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	27 34 43 54 68 85 106 133 166 207 259
		Rdc(Ω)	3.9 m 7.8 m 15.7 m 31.4 m 63.0 m 125.2 m 248.2 m 495.3 m 983.2 m 1.9 3.9
Full Winding	Turns	50 77 119 184 285 441 682 1,056 1,635 2,530 3,916	
	Rdc(Ω)	7.2 m 17.7 m 43.6 m 107.1 m 263.9 m 649.4 m 1.6 3.9 9.7 23.8 58.7	

