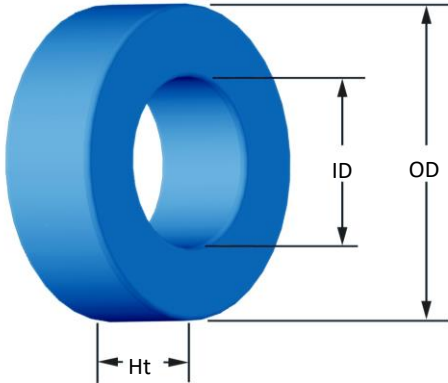




Part Number:

SH-130125-2

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	33.02 mm 33.83 mm	1.300 in 1.332 in
ID	(nom. - bare core) (min. - after coating)	19.94 mm 19.30 mm	0.785 in 0.760 in
Ht	(nom. - bare core) (max. - after coating)	10.67 mm 11.61 mm	0.420 in 0.457 in
Mass	(approximate)	31 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	0.672 cm ² 8.15 cm 5.48 cm ³ 2.93 cm ² 40.1 cm ² 4.74 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 127 nH/N ² N=70, #22 AWG 10 kHz 0.21 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 512 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	14 18 22 29 36 46 58 73 91 114 142
		Rdc(Ω)	1.4 m 2.8 m 5.4 m 11.4 m 22.4 m 45.6 m 91.5 m 183.1 m 363.0 m 723.2 m 1.4
Full Winding	Turns	15 24 37 57 88 136 211 326 504 780 1,208	
	Rdc(Ω)	1.5 m 3.7 m 9.1 m 22.3 m 54.9 m 134.9 m 332.8 m 817.6 m 2.0 4.9 12.2	

