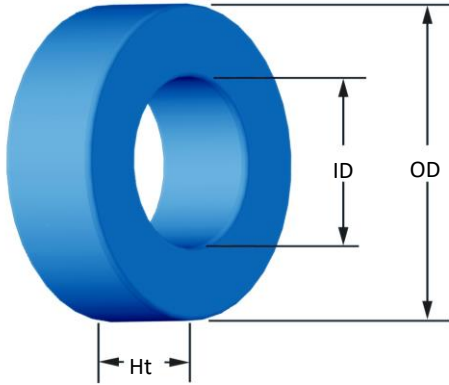




Part Number: SH-185026-2

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	46.74 mm 47.63 mm	1.840 in 1.875 in
ID	(nom. - bare core) (min. - after coating)	28.70 mm 27.89 mm	1.130 in 1.098 in
Ht	(nom. - bare core) (max. - after coating)	15.24 mm 16.13 mm	0.600 in 0.635 in
Mass	(approximate)	81 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	1.34 cm ² 11.62 cm 15.6 cm ³ 6.11 cm ² 79.6 cm ² 6.59 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	26 37 nH/N ² N=80, #20 AWG 10 kHz 0.48 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: $a=1.000E+06$, $b=3.287E+08$, $c=5.779E+06$, $d=1.240E-14$ B_{pk} frequency Core Loss (nominal) Core Loss (maximum)	500 G 100 kHz 277 mW/cm ³ 318 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=1.042E-06$, $c=1.701$, $d=0.000$ H_{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	200 Oe 53.9% 46.1%	
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	21 27 34 43 54 68 85 106 133 166 207
		Rdc(Ω)	2.8 m 5.8 m 11.7 m 23.5 m 46.8 m 93.8 m 186.5 m 369.9 m 738.1 m 1.5 2.9
Full Winding	Turns	32 49 77 119 184 284 440 680 1,053 1,630 2,523	
	Rdc(Ω)	4.3 m 10.6 m 26.4 m 64.9 m 159.6 m 391.8 m 965.4 m 2.4 5.8 14.4 35.4	

