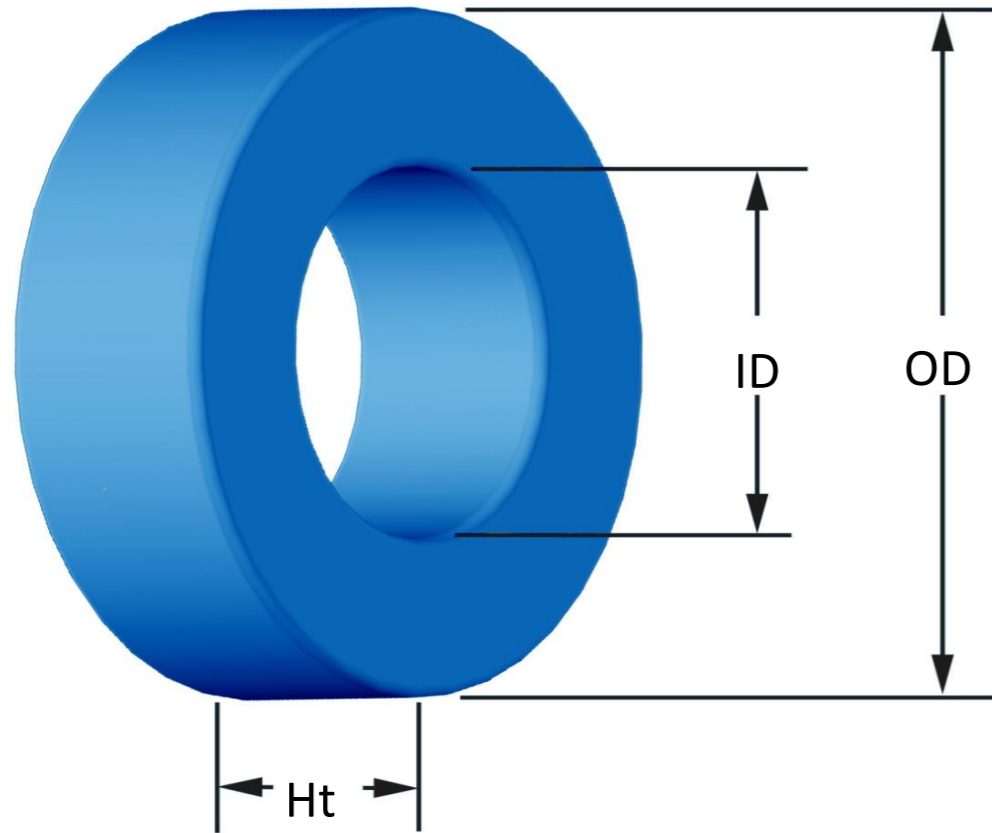




Part Number: HF-184125-2

Revision 20160816 - Generated 2016-Aug-16



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)	24.13 mm 23.32 mm	0.950 in 0.918 in
Ht	(nom. - bare core) (max. - after coating)	18.03 mm 18.92 mm	0.710 in 0.745 in
Mass	(approximate)	160 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.99 cm ²	
	L _e - Eff. Mag. Path Length	10.743 cm	
	V _e - Eff. Core Volume	21.4 cm ³	
	WA - Min. Eff. Window Area	4.27 cm ²	
	sa - Surface Area	81.7 cm ²	
	mlt - mean length per turn	7.38 cm	
Inductance	μ _i (reference)	125	
	A _L value (nominal)	281 nH/N ²	
	Test Winding	N=70, #20 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.62 V	
	AL tolerance	±8%	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=3.540E+10, b=6.826E+08, c=2.688E+06, d=6.077E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	482 mW/cm ³	
Core Loss (maximum)	554 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=7.955E-07, c=2.174, d=0.000		
	H _{DC}	40 Oe	
	Percent Initial Perm (nom.)	80.5%	
Percent Initial Perm (min.)	73.6%		
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	100 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	17	22	28	35	45	56	70	88	111	138	173
		Rdc(Ω)	2.6 m	5.3 m	10.7 m	21.4 m	43.7 m	86.5 m	171.9 m	343.7 m	689.5 m	1.4	2.7
Full Winding	Turns	22	35	54	83	128	199	307	476	736	1,139	1,764	
	Rdc(Ω)	3.3 m	8.4 m	20.7 m	50.7 m	124.3 m	307.3 m	753.9 m	1.9	4.6	11.3	27.7	

