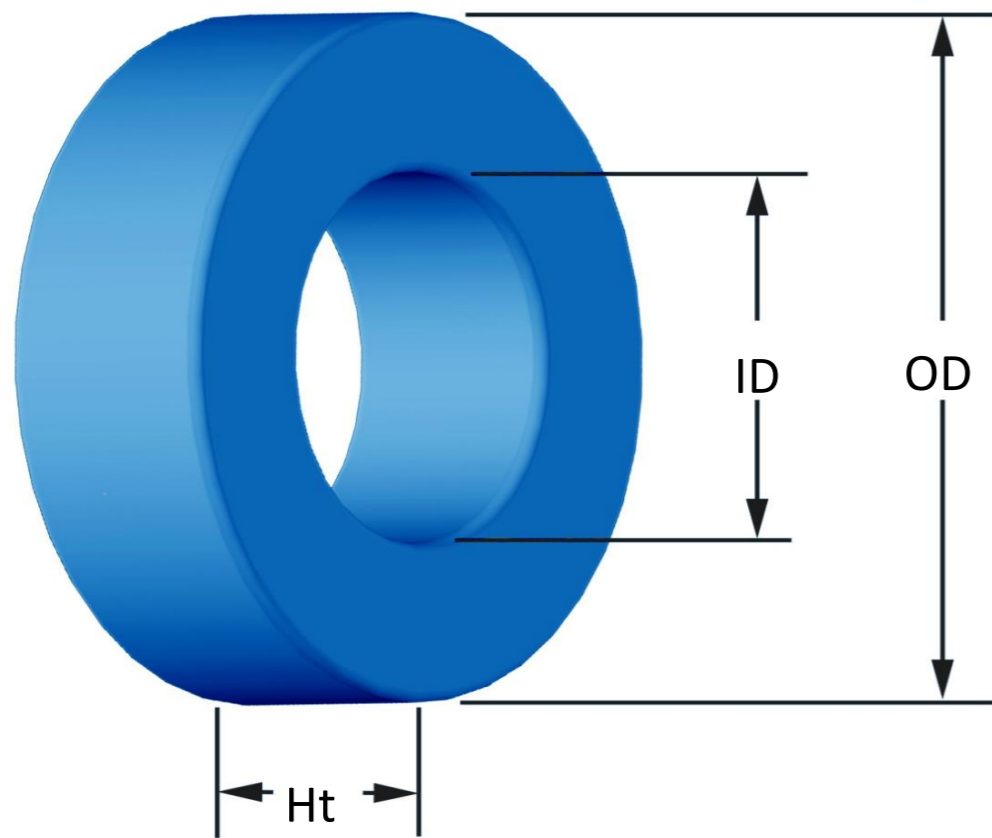




Part Number: **OP-521125-2**

Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core)	132.54 mm	5.218 in
	(max. - after coating)	134.21 mm	5.284 in
ID	(nom. - bare core)	78.59 mm	3.094 in
	(min. - after coating)	77.04 mm	3.033 in
Ht	(nom. - bare core)	25.40 mm	1.000 in
	(max. - after coating)	26.80 mm	1.055 in
Mass	(approximate)	1,570 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	6.71 cm ²	
	L _e - Eff. Mag. Path Length	32.429 cm	
	V _e - Eff. Core Volume	218 cm ³	
	WA - Min. Eff. Window Area	46.6 cm ²	
	sa - Surface Area	540 cm ²	
	mlt - mean length per turn	14.9 cm	
Inductance	μ _i (reference)	125	
	A _L value (nominal)	325 nH/N ²	
	Test Winding	N=200, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	6.0 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=3.954E+09, b=2.598E+09, c=3.654E+06, d=5.000E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
Core Loss (nominal)	259 mW/cm ³		
Core Loss (maximum)	298 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=3.545E-06, c=1.863, d=0.000		
	H _{DC}	40 Oe	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
Winding Table	Package Quantity	4 Pcs/Box	
	Wire Size	AWG	8 10 12 14 16 18 20 22 24 26 28
Single Layer	mm	3.150	2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315
	Turns	62	78 98 123 154 192 239 298 372 463 577
Full Winding	Rdc(Ω)	19.0 m	38.1 m 76.1 m 151.9 m 302.4 m 599.6 m 1.2 2.4 4.7 9.3 18.3
	Turns	244	378 584 905 1,400 2,167 3,354 5,191 8,035 12,436 19,248
Winding	Rdc(Ω)	74.9 m	184.5 m 453.4 m 1.1 2.7 6.8 16.7 41.0 100.9 248.5 611.6

