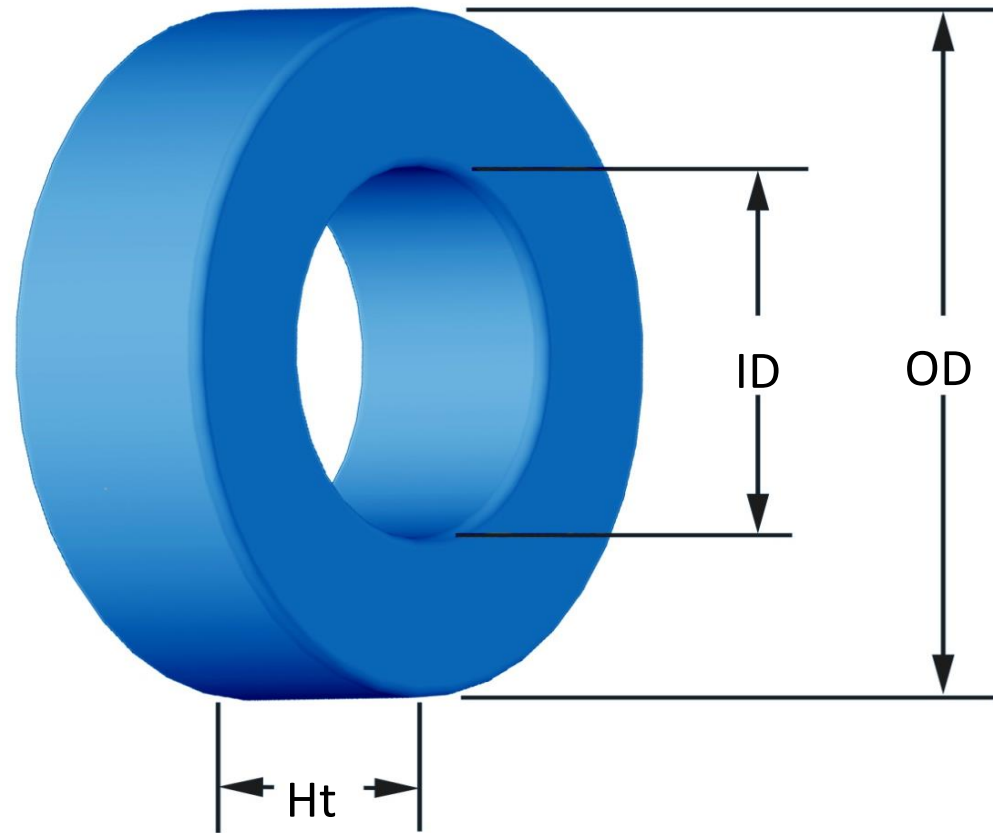




**Part Number:** **HF-157075-2**  
 Revision 20160816 - Generated 2016-Aug-16



<b>OD</b>	(nom. - bare core) (max. - after coating)	39.88 mm 40.69 mm	1.570 in 1.602 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	24.13 mm 23.32 mm	0.950 in 0.918 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	14.48 mm 15.37 mm	0.570 in 0.605 in
<b>Mass</b>	(approximate)	73 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	1.07 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	9.85 cm	
	V <sub>e</sub> - Eff. Core Volume	10.5 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	4.27 cm <sup>2</sup>	
	sa - Surface Area	60.2 cm <sup>2</sup>	
	mlt - mean length per turn	5.98 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	75	
	A <sub>L</sub> value (nominal)	101 nH/N <sup>2</sup>	
	Test Winding	N=70, #20 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.33 V	
AL tolerance	±8%		
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=4.787E+09, b=6.087E+08, c=1.488E+06, d=3.743E-14		
	B <sub>pk</sub>	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	603 mW/cm <sup>3</sup>	
	Core Loss (maximum)	694 mW/cm <sup>3</sup>	
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: a=1.000E-02, b=5.115E-06, c=1.607, d=0.000		
	H <sub>DC</sub>	100 Oe	
	Percent Initial Perm.(nom.)	54.4%	
	Percent Initial Perm.(min.)	47.1%	
<b>Coating/Pkg</b>	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	180 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	Turns	17	22	28	35	45	56	70	88	111	138	173
		Rdc(Ω)	2.1 m	4.3 m	8.7 m	17.3 m	35.4 m	70.0 m	139.2 m	278.3 m	558.3 m	1.1	2.2
<b>Full Winding</b>	Turns	22	35	54	83	128	199	307	476	736	1,139	1,764	
	Rdc(Ω)	2.7 m	6.8 m	16.8 m	41.0 m	100.6 m	248.8 m	610.5 m	1.5	3.7	9.1	22.4	

