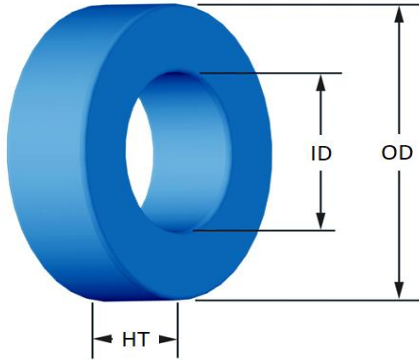




Part Number: **OP-130060-2**

Revision: 2023-Dec-06



(If coated, Max./Min. includes coating)

	mm	in												
<b>OD</b>	(nom. - bare core) 33.02 (max.) 33.83	1.300 1.332												
<b>ID</b>	(nom. - bare core) 19.94 (min.) 19.30	0.785 0.760												
<b>HT</b>	(nom. - bare core) 10.67 (max.) 11.61	0.420 0.457												
<b>Mass</b>	(approximate) 36	grams												
<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section 0.672 $L_e$ - Eff. Mag. Path Length 8.15 $V_e$ - Eff. Core Volume 5.48 $W_A$ - Min. Eff. Window Area 2.93 $s_a$ - Surface Area 40.1 $m_{lt}$ - mean length per turn 4.74	$cm^2$ cm $cm^3$ $cm^2$ $cm^2$ cm												
<b>Inductance</b>	$\mu_i$ (reference) 60 $A_L$ value (nominal) 61 Test Winding 70 Turns Frequency 10k Voltage on Agilent 4284A 0.21 AL tolerance $\pm 8\%$	nH/N <sup>2</sup> 22 Hz V												
<b>Core Loss</b>	$Core\ Loss(mW/cm^3) = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ <p>where <math>B_{pk}</math> expressed in gauss, <math>f</math> expressed in hertz, and:  <math>a=1.000E+06</math>, <math>b=1.329E+09</math>, <math>c=3.531E+06</math>, <math>d=5.000E-14</math></p> <table border="1"> <tr> <td><math>B_{pk}</math></td> <td>1000</td> <td>G</td> </tr> <tr> <td>frequency</td> <td>50 k</td> <td>Hz</td> </tr> <tr> <td>Core Loss (nominal)</td> <td>367</td> <td>mW/cm<sup>3</sup></td> </tr> <tr> <td>Core Loss (maximum)</td> <td>422</td> <td>mW/cm<sup>3</sup></td> </tr> </table>		$B_{pk}$	1000	G	frequency	50 k	Hz	Core Loss (nominal)	367	mW/cm <sup>3</sup>	Core Loss (maximum)	422	mW/cm <sup>3</sup>
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<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ <p>where H expressed in oersteds, and:  <math>a=1.000E-02</math>, <math>b=1.740E-06</math>, <math>c=1.748</math>, <math>d=0.000</math></p> <table border="1"> <tr> <td><math>H_{DC}</math></td> <td>100</td> <td>Oe</td> </tr> <tr> <td>Percent Initial Perm(nom.)</td> <td>64.7</td> <td>%</td> </tr> <tr> <td>Percent Initial Perm(min.)</td> <td>57.1</td> <td>%</td> </tr> </table>		$H_{DC}$	100	Oe	Percent Initial Perm(nom.)	64.7	%	Percent Initial Perm(min.)	57.1	%			
$H_{DC}$	100	Oe												
Percent Initial Perm(nom.)	64.7	%												
Percent Initial Perm(min.)	57.1	%												
<b>Coating/Pkg</b>	Coating Type: Blue Epoxy Voltage Breakdown (min.): 1000 Vrms Limit: 0.1 mA, 5 s Package Quantity: 336 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	14	18	22	29	36	46	58	73	91	114	142	
		Rdc( $\Omega$ )	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	
<b>Full Winding</b>	Turns	15	24	37	57	88	136	211	326	504	780	1,208		
	Rdc( $\Omega$ )	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		

