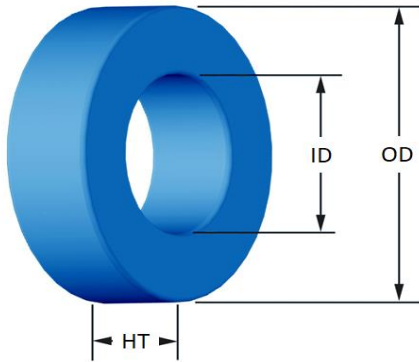




Part Number: **OC-130060-2**

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) 37	grams
<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section $L_e$ - Eff. Mag. Path Length $V_e$ - Eff. Core Volume $W_A$ - Min. Eff. Window Area $s_a$ - Surface Area $m_{lt}$ - mean length per turn	0.672 cm <sup>2</sup> 8.15 cm 5.48 cm <sup>3</sup> 2.93 cm <sup>2</sup> 40.1 cm <sup>2</sup> 4.74 cm
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 61 nH/N <sup>2</sup> 70 Turns AWG# 22 10k Hz 0.21 V ±8%
<b>Core Loss</b>	Core Loss(mW/cm <sup>3</sup> ) = $\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=2.288E+09$ , $b=1.502E+09$ , $c=3.344E+06$ , $d=1.782E-14$	$B_{pk}$ 1000 G frequency 50 k Hz Core Loss (nominal) 263 mW/cm <sup>3</sup> Core Loss (maximum) 302 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: $a=1.000E-02$ , $b=8.573E-08$ , $c=2.326$ , $d=0.000$	$H_{DC}$ 100 Oe Percent Initial Perm.(nom.) 72.3 % Percent Initial Perm.(min.) 63.0 %
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 336 Pcs/Box
<b>Winding Table</b>	Wire Size Single Layer Full Winding	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 Turns 14, 18, 22, 29, 36, 46, 58, 73, 91, 114, 142 Rdc(Ω) 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 Turns 15, 24, 37, 57, 88, 136, 211, 326, 504, 780, 1,208 Rdc(Ω) 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

