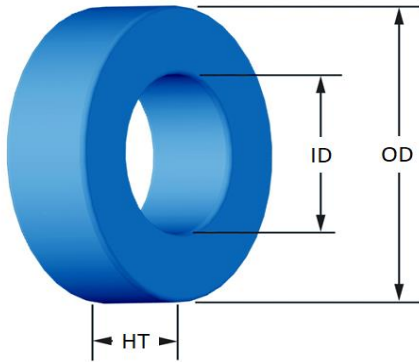




Part Number: **OD-157060-2**

Revision: 2023-Dec-06



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

	mm	in
<b>OD</b>	(nom. - bare core) 39.88 (max.) 40.69	1.570 1.602
<b>ID</b>	(nom. - bare core) 24.13 (min.) 23.32	0.950 0.918
<b>HT</b>	(nom. - bare core) 14.48 (max.) 15.37	0.570 0.605
<b>Mass</b>	(approximate) 74	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	1.07 cm <sup>2</sup> 9.85 cm 10.5 cm <sup>3</sup> 4.27 cm <sup>2</sup> 60.2 cm <sup>2</sup> 5.98 cm
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 81 nH/N <sup>2</sup> 70 Turns AWG# 20 10k Hz 0.33 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: $a=1.000E+06$ , $b=8.154E+08$ , $c=2.976E+06$ , $d=3.292E-14$ $B_{pk}$ frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 k Hz 450 mW/cm <sup>3</sup> 517 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: $a=1.000E-02$ , $b=2.111E-08$ , $c=2.501$ , $d=0.000$ $H_{DC}$ Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	100 Oe 82.5 % 74.9 %
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 180 Pcs/Box
<b>Winding Table</b>	<b>Wire Size</b> mm <b>Single Layer</b> Turns Rdc(Ω) <b>Full Winding</b> Turns Rdc(Ω)	AWG 8 3.150 17 2.1 m 22 2.7 m 10 2.500 22 4.3 m 35 6.8 m 12 2.000 54 16.8 m 14 1.600 83 41.0 m 16 1.250 128 100.6 m 18 1.000 199 248.8 m 20 0.800 307 610.5 m 22 0.630 476 1.5 24 0.500 736 3.7 26 0.400 1,139 9.1 28 0.315 173 2.2 1,764 22.4

