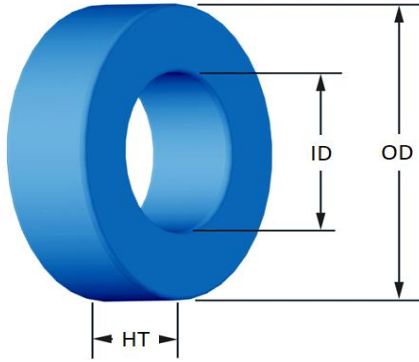




Part Number: **OD-226090-2H305**

Revision: 2023-Dec-18



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

	mm	in	
<b>OD</b>	(nom. - bare core) 57.15 (max.) 58.04	2.250 2.285	
<b>ID</b>	(nom. - bare core) 26.39 (min.) 25.58	1.039 1.007	
<b>HT</b>	(nom. - bare core) 30.48 (max.) 31.37	1.200 1.235	
<b>Mass</b>	(approximate)	420 grams	
<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section	4.57	cm <sup>2</sup>
	$L_e$ - Eff. Mag. Path Length	12.506	cm
	$V_e$ - Eff. Core Volume	57.2	cm <sup>3</sup>
	$W_A$ - Min. Eff. Window Area	5.14	cm <sup>2</sup>
	$s_a$ - Surface Area	136	cm <sup>2</sup>
	$m_{lt}$ - mean length per turn	10.8	cm
<b>Inductance</b>	$\mu_i$ (reference)	90	
	$A_L$ value (nominal)	414	nH/N <sup>2</sup>
	Test Winding	60 Turns	AWG# 18
	Frequency	10k	Hz
	Voltage on Agilent 4284A	1.2	V
AL tolerance	±8%		
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=1.000E+06$ , $b=7.629E+08$ , $c=4.688E+06$ , $d=4.273E-14$		
	$B_{pk}$	1000	G
	frequency	50 k	Hz
	Core Loss (nominal)	443	mW/cm <sup>3</sup>
Core Loss (maximum)	510	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: $a=1.000E-02$ , $b=4.343E-07$ , $c=2.124$ , $d=0.000$		
	$H_{DC}$	50	Oe
	Percent Initial Perm(nom.)	85.0	%
Percent Initial Perm(min.)	79.4	%	
<b>Coating/Pkg</b>	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	36 Pcs/Box	

Winding Table	Wire Size	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
	Single Layer	Turns	19	24	31	39	49	62	78	97	122	152	190
		Rdc(Ω)	4.2 m	8.5 m	17.4 m	34.8 m	69.6 m	140.1 m	280.3 m	554.3 m	1.1	2.2	4.4
Full Winding	Turns	27	42	64	100	154	239	370	572	886	1,371	2,122	
	Rdc(Ω)	6.0 m	14.8 m	35.9 m	89.3 m	218.8 m	539.9 m	1.3	3.3	8.1	19.8	48.8	

