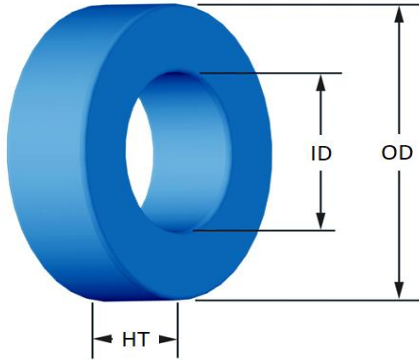




Part Number: **OC-292060-2**

Revision: 2023-Dec-18



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

	mm	in											
<b>OD</b>	(nom. - bare core) 74.10 (max.) 75.20	2.917 2.961											
<b>ID</b>	(nom. - bare core) 45.30 (min.) 44.10	1.783 1.736											
<b>HT</b>	(nom. - bare core) 35.00 (max.) 36.20	1.378 1.425											
<b>Mass</b>	(approximate) 620	grams											
<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section	4.94	cm <sup>2</sup>										
	$L_e$ - Eff. Mag. Path Length	18.4	cm										
	$V_e$ - Eff. Core Volume	90.9	cm <sup>3</sup>										
	$W_A$ - Min. Eff. Window Area	15.3	cm <sup>2</sup>										
	$s_a$ - Surface Area	228	cm <sup>2</sup>										
	$m_{lt}$ - mean length per turn	12.6	cm										
<b>Inductance</b>	$\mu_i$ (reference)	60											
	$A_L$ value (nominal)	206	nH/N <sup>2</sup>										
	Test Winding	100 Turns	AWG# 18										
	Frequency	10k	Hz										
	Voltage on Agilent 4284A	2.2	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: $a=2.288E+09$ , $b=1.502E+09$ , $c=3.344E+06$ , $d=1.782E-14$												
	$B_{pk}$	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:	Blue Epoxy											
	Voltage Breakdown (min.)	1000 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	12 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	35	44	55	69	87	109	136	170	212	264	329
		Rdc(Ω)	9.0 m	18.1 m	35.9 m	71.7 m	143.7 m	286.3 m	568.1 m	1.1	2.2	4.4	8.8
<b>Full Winding</b>	Turns	80	124	192	296	459	710	1,099	1,701	2,633	4,075	6,307	
	Rdc(Ω)	20.7 m	50.9 m	125.4 m	307.4 m	758.0 m	1.9	4.6	11.3	27.8	68.5	168.5	

