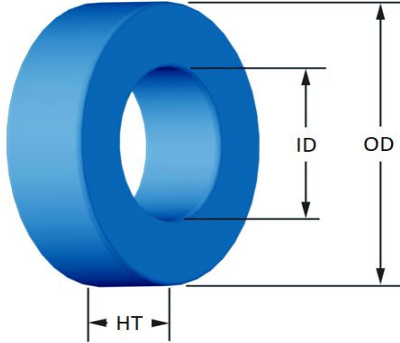




Part Number: **OE-014040-8**

Revision: 2025-Nov-19



(If coated, Max./Min. includes coating)		mm	in										
<b>OD</b>	(nom. - bare core)	3.56	0.140										
	(max.)	3.76	0.148										
<b>ID</b>	(nom. - bare core)	1.78	0.070										
	(min.)	1.52	0.060										
<b>HT</b>	(nom. - bare core)	1.52	0.060										
	(max.)	1.73	0.068										
<b>Mass</b>	(approximate)	0.07	grams										
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.0137	cm <sup>2</sup>										
	L <sub>e</sub> - Eff. Mag. Path Length	0.817	cm										
	V <sub>e</sub> - Eff. Core Volume	0.0107	cm <sup>3</sup>										
	WA - Min. Eff. Window Area	0.0181	cm <sup>2</sup>										
	sa - Surface Area	0.523	cm <sup>2</sup>										
	mL - mean length per turn	0.646	cm										
<b>Inductance</b>	μ <sub>i</sub> (reference)	40											
	A <sub>e</sub> value (nominal)	9	nH/N <sup>2</sup>										
	Test Winding	30 Turns	AWG# 36										
	Frequency	10k	Hz										
	Voltage on Agilent 4284A	0.002	V										
	AL tolerance	±8%											
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{a} + \frac{b}{B_{pk}^3} + \frac{c}{B_{pk}^{2.3}} + \frac{d \cdot B_{pk}^2 \cdot f^2}{B_{pk}^{1.65}}$												
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=5.6302E+09, b=7.2075E+08, c=3.8601E+06, d=1.9608E-14												
	B <sub>pk</sub>	1000	G										
	frequency	50 k	Hz										
	Core Loss (nominal)	407	mW/cm <sup>3</sup>										
	Core Loss (maximum)	468	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=1.0000E-02, b=1.6194E-07, c=2.0622, d=0.0000												
	H <sub>DC</sub>	100	Oe										
	Percent Initial Perm.(nom.)	82.3	%										
	Percent Initial Perm.(min.)	76.1	%										
<b>Coating/Pkg</b>	Coating Type:	Parylene N											
	Voltage Breakdown (min.)	500 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	36,000 Pcs/Box											
<b>Winding Table</b>	<b>Wire Size</b>	AWG	30	32	34	36	38	40	42	44	-	-	-
		mm	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-	-	-
	<b>Single Layer</b>	Turns	11	15	19	25	31	40	50	63	-	-	-
		Rdc(Ω)	24.1 m	52.2 m	105.1 m	219.9 m	433.7 m	890.0 m	1.8	3.5	-	-	-
	<b>Full Winding</b>	Turns	12	18	28	43	67	103	159	247	-	-	-
		Rdc(Ω)	26.2 m	62.6 m	154.9 m	378.3 m	937.3 m	2.3	5.6	13.9	-	-	-

Special Spec: Preliminary Material Specification.

