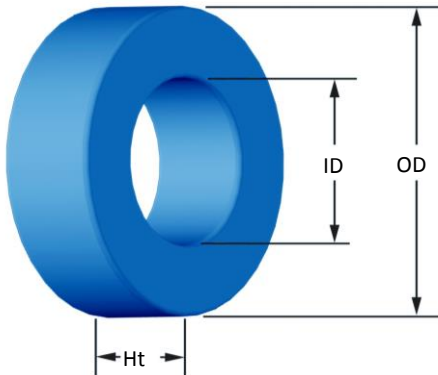




**Part Number:** **MS-226014-2**  
Revision 20140225 - Generated 12-Mar-2014



<b>OD</b>	(nom. - bare core) (max. - after coating)	57.15 mm 58.04 mm	2.250 in 2.285 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	26.39 mm 25.58 mm	1.039 in 1.007 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	15.24 mm 16.13 mm	0.600 in 0.635 in
<b>Mass</b>	(approximate)	140 grams	
<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section $L_e$ - Eff. Mag. Path Length $V_e$ - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	2.29 cm <sup>2</sup> 12.506 cm 28.6 cm <sup>3</sup> 5.14 cm <sup>2</sup> 105 cm <sup>2</sup> 7.75 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	14 32 nH/N <sup>2</sup> N=60, #18 AWG 10 kHz 0.61 V ±8%	
<b>Core Loss</b>	Core Loss(mW/cm <sup>3</sup> ): $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=1.000E+09$ , $b=4.213E+08$ , $c=1.032E+07$ , $d=2.297E-14$ $B_{pk}$ frequency Core Loss (nominal) Core Loss (maximum)	300 G 100 kHz 79 mW/cm <sup>3</sup> 90 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: $a=1.000E-02$ , $b=5.722E-08$ , $c=1.995$ , $d=0.000$ $H_{DC}$ Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	200 Oe 81.7% 75.7%	
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 80 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	19	24	31	39	49	62	78	97	122	152	190
		Rdc(Ω)	3.0 m	6.1 m	12.5 m	25.0 m	50.0 m	100.5 m	201.2 m	397.8 m	795.8 m	1.6	3.1
<b>Full Winding</b>	Turns	27	42	64	100	154	239	370	572	886	1,371	2,122	
	Rdc(Ω)	4.3 m	10.6 m	25.8 m	64.1 m	157.0 m	387.5 m	954.2 m	2.3	5.8	14.2	35.0	

