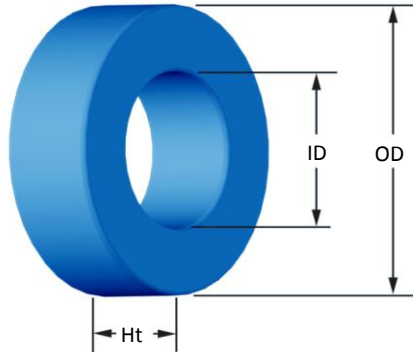




**Part Number: MS-026147-8**

Revision 20190318 - Generated 2019-Mar-18



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

<b>OD</b>	(nom. - bare core) (max.)	6.60 mm 7.32 mm	0.260 in 0.288 in
<b>ID</b>	(nom. - bare core) (min.)	2.67 mm 2.21 mm	0.105 in 0.087 in
<b>HT</b>	(nom. - bare core) (max.)	4.78 mm 5.54 mm	0.188 in 0.218 in
<b>Mass</b>	(approximate)	0.74 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	0.0920 cm <sup>2</sup> 1.36 cm 0.125 cm <sup>3</sup> 0.0384 cm <sup>2</sup> 2.44 cm <sup>2</sup> 1.73 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	147 122 nH/N <sup>2</sup> N=35, #32 AWG 10 kHz 0.014 V ±12%	
<b>Core Loss</b>	Core Loss(mW/cm <sup>3</sup> ): $\frac{f}{Bpk^3} + \frac{f}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$ where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=5.176E+08$ , $b=1.028E+09$ , $c=9.893E+06$ , $d=2.852E-14$ $B_{pk}$ frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 kHz 279 mW/cm <sup>3</sup> 321 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: $a=1.000E-02$ , $b=4.732E-05$ , $c=1.539$ , $d=0.000$ $H_{DC}$ Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	40 Oe 42.0% 35.3%	
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Parylene N 500 Vrms 0.1 mA, 5 s 14,400 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	AWG	26	28	30	32	34	36	38	40	42	44	-
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-
	<b>Single Layer</b>	Turns	11	14	18	23	29	37	47	59	74	93	-
		Rdc(Ω)	25.5 m	51.5 m	105.4 m	214.2 m	429.4 m	871.4 m	1.8	3.5	7.0	14.0	-
<b>Full Winding</b>	Turns	10	16	25	38	59	91	141	218	337	522	-	
	Rdc(Ω)	23.1 m	58.9 m	146.4 m	353.8 m	873.7 m	2.1	5.3	13.0	31.9	78.6	-	

