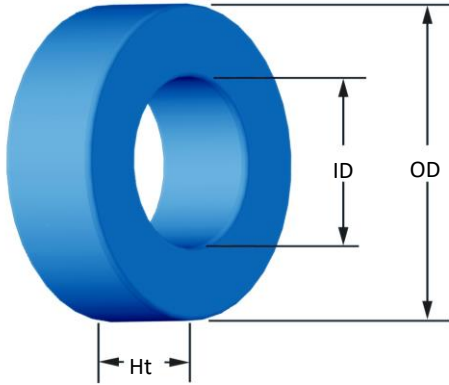




Part Number: SH-031026-8

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	7.87 mm 8.51 mm	0.310 in 0.335 in
ID	(nom. - bare core) (min. - after coating)	3.96 mm 3.43 mm	0.156 in 0.135 in
Ht	(nom. - bare core) (max. - after coating)	3.18 mm 3.81 mm	0.125 in 0.150 in
Mass	(approximate)	0.57 grams	
Magnetic Dimensions	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	0.0615 cm ² 1.79 cm 0.110 cm ³ 0.0924 cm ² 2.65 cm ² 1.44 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	26 14 nH/N ² N=45, #32 AWG 10 kHz 0.012 V $\pm 12\%$	
Core Loss	Core Loss (mW/cm ³) = $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=3.287E+08$, $c=5.779E+06$, $d=1.240E-14$ B_{pk} frequency Core Loss (nominal) Core Loss (maximum)	500 G 100 kHz 277 mW/cm ³ 318 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=1.042E-06$, $c=1.701$, $d=0.000$ H_{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	200 Oe 53.9% 46.1%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Parylene N 500 Vrms 0.1 mA, 5 s 14,400 Pcs/Box	
Winding Table	Wire Size	AWG	22 24 26 28 30 32 34 36 38 40 42
		mm	0.630 0.500 0.400 0.315 0.250 0.200 0.160 0.125 0.100 0.080 0.063
	Single Layer	Turns	11 14 18 23 29 37 47 59 74 93 116
		Rdc(Ω)	8.4 m 17.0 m 34.7 m 70.6 m 141.5 m 287.1 m 580.1 m 1.2 2.3 4.6 9.2
Full Winding	Turns	10 16 25 38 59 91 141 219 339 524 812	
	Rdc(Ω)	7.6 m 19.4 m 48.2 m 116.6 m 287.9 m 706.2 m 1.7 4.3 10.6 26.0 64.1	

