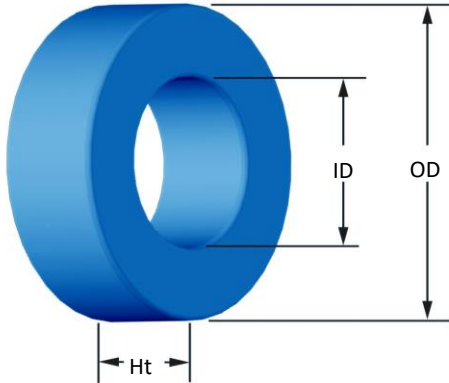




Part Number:

SH-039026-8

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	9.65 mm 10.29 mm	0.380 in 0.405 in
ID	(nom. - bare core) (min. - after coating)	4.78 mm 4.27 mm	0.188 in 0.168 in
Ht	(nom. - bare core) (max. - after coating)	3.18 mm 3.81 mm	0.125 in 0.150 in
Mass	(approximate)	0.85 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	0.0752 cm ² 2.18 cm 0.164 cm ³ 0.143 cm ² 3.61 cm ² 1.58 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	26 11 nH/N ² N=45, #30 AWG 10 kHz 0.015 V ±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 10,800 Pcs/Box	
Winding Table	Wire Size	AWG	20 22 24 26 28 30 32 34 36 38 40
		mm	0.800 0.630 0.500 0.400 0.315 0.250 0.200 0.160 0.125 0.100 0.080
	Single Layer	Turns	11 14 18 23 29 37 47 59 74 93 116
		Rdc(Ω)	5.8 m 11.7 m 23.9 m 48.6 m 97.4 m 197.6 m 399.2 m 796.9 m 1.6 3.2 6.3
Full Winding	Turns	10 16 25 38 59 92 142 219 339 525 813	
	Rdc(Ω)	5.2 m 13.4 m 33.2 m 80.2 m 198.1 m 491.3 m 1.2 3.0 7.3 17.9 44.2	

