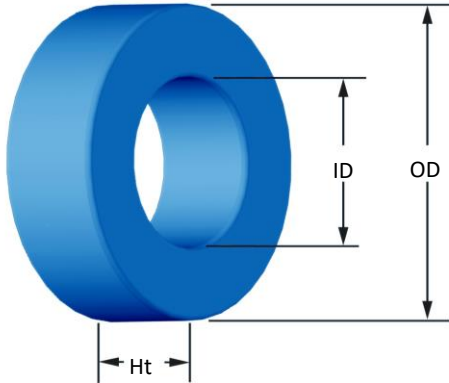




Part Number: SH-039125-8

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)	0.94 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	125 53 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: $a=7.985E+09$, $b=1.378E+09$, $c=4.041E+06$, $d=7.891E-15$ B_{pk} frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 kHz 240 mW/cm ³ 276 mW/cm ³											
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=3.265E-05$, $c=1.587$, $d=0.000$ H_{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	40 Oe 46.8% 39.7%											
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
	Full Winding	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
	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	

