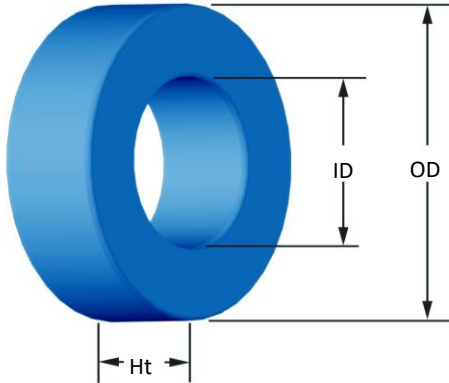




Part Number: **SH-027125-8**

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	6.60 mm 7.24 mm	0.260 in 0.285 in
ID	(nom. - bare core) (min. - after coating)	2.67 mm 2.29 mm	0.105 in 0.090 in
Ht	(nom. - bare core) (max. - after coating)	2.54 mm 3.18 mm	0.100 in 0.125 in
Mass	(approximate)	0.37 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	0.0467 cm ² 1.36 cm 0.0640 cm ³ 0.0412 cm ² 1.83 cm ² 1.25 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 54 nH/N ² N=35, #32 AWG 10 kHz 0.007 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: $a=7.985E+09$, $b=1.378E+09$, $c=4.041E+06$, $d=7.891E-15$ 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 21,600 Pcs/Box	
Winding Table	Wire Size	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 -
	Single Layer	Turns	11 14 19 24 30 38 49 61 77 96 -
		Rdc(Ω)	18.3 m 37.1 m 80.1 m 160.9 m 319.9 m 644.5 m 1.3 2.6 5.3 10.4 -
Full Winding	Turns	11 17 26 41 63 98 151 234 362 560 -	
	Rdc(Ω)	18.3 m 45.1 m 109.6 m 274.9 m 671.8 m 1.7 4.1 10.0 24.7 60.8 -	

