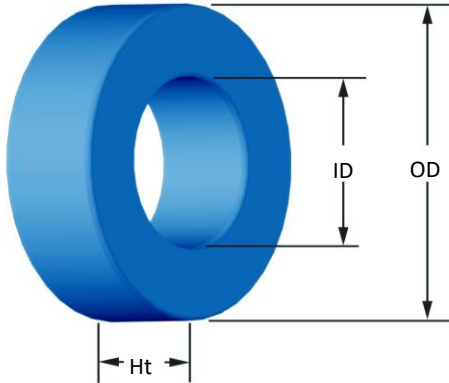




Part Number: SH-109125-2

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	26.92 mm 27.81 mm	1.060 in 1.095 in
ID	(nom. - bare core) (min. - after coating)	14.73 mm 14.10 mm	0.580 in 0.555 in
Ht	(nom. - bare core) (max. - after coating)	18.00 mm 19.00 mm	0.709 in 0.748 in
Mass	(approximate)	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	1.01 cm ² 6.35 cm 6.43 cm ³ 1.56 cm ² 35.8 cm ² 5.88 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 250 nH/N ² N=80, #26 AWG 10 kHz 0.36 V ±8%	
Core Loss	Core Loss (mW/cm ³) = $\frac{f}{a + b + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ 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	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 400 Pcs/Box	
Winding Table	Wire Size	AWG	10 12 14 16 18 20 22 24 26 28 30
		mm	2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315 0.250
	Single Layer	Turns	12 16 20 26 33 41 52 66 82 103 129
		Rdc(Ω)	2.3 m 4.9 m 9.7 m 20.1 m 40.6 m 80.2 m 161.7 m 326.4 m 644.9 m 1.3 2.6
Full Winding	Turns	13 20 30 47 73 112 174 269 417 645 998	
	Rdc(Ω)	2.5 m 6.1 m 14.6 m 36.3 m 89.7 m 219.0 m 541.0 m 1.3 3.3 8.1 19.9	

