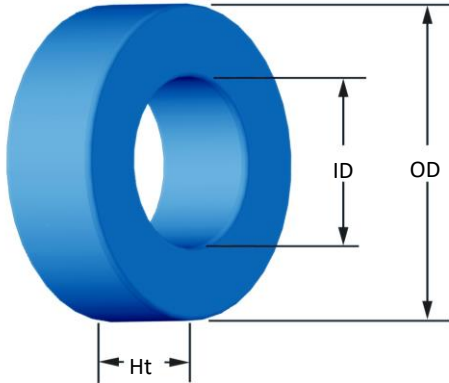




Part Number: **SH-292125-2**

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	74.10 mm 75.20 mm	2.917 in 2.961 in
ID	(nom. - bare core) (min. - after coating)	45.30 mm 44.10 mm	1.783 in 1.736 in
Ht	(nom. - bare core) (max. - after coating)	35.00 mm 36.20 mm	1.378 in 1.425 in
Mass	(approximate)	520 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	4.94 cm ² 18.4 cm 90.9 cm ³ 15.3 cm ² 228 cm ² 12.6 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 429 nH/N ² N=100, #18 AWG 10 kHz 2.2 V ±8%	
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	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 18 Pcs/Box	
Winding Table	Wire Size	AWG	8 12 14 16 18 20 22 24 26 28
		mm	3.150 2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315
	Single Layer	Turns	35 44 55 69 87 109 136 170 212 264 329
		Rdc(Ω)	9.0 m 18.1 m 35.9 m 71.7 m 143.7 m 286.3 m 568.1 m 1.1 2.2 4.4 8.8
Full Winding	Turns	80 124 192 296 459 710 1,099 1,701 2,633 4,075 6,307	
	Rdc(Ω)	20.7 m 50.9 m 125.4 m 307.4 m 758.0 m 1.9 4.6 11.3 27.8 68.5 168.5	

