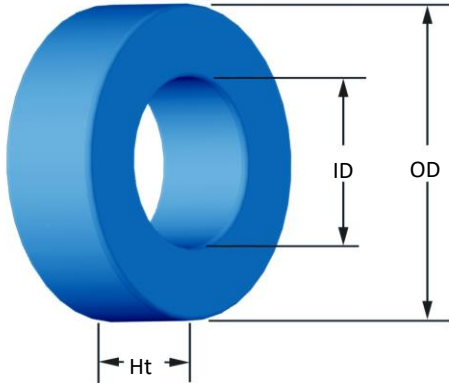




Part Number:

SH-300125-2

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	77.80 mm 78.94 mm	3.063 in 3.108 in
ID	(nom. - bare core) (min. - after coating)	49.23 mm 47.96 mm	1.938 in 1.888 in
Ht	(nom. - bare core) (max. - after coating)	12.70 mm 13.97 mm	0.500 in 0.550 in
Mass	(approximate)	200 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	1.77 cm ² 19.612 cm 34.8 cm ³ 18.1 cm ² 184 cm ² 8.29 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 142 nH/N ² N=120, #18 AWG 10 kHz 0.94 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 45 Pcs/Box	
Winding Table	Wire Size	AWG	8 10 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	38 48 60 75 95 118 148 185 230 287 358
		Rdc(Ω)	6.5 m 13.0 m 25.9 m 51.4 m 103.6 m 204.6 m 408.2 m 811.5 m 1.6 3.2 6.3
Full Winding	Turns	95 146 227 351 543 840 1,300 2,012 3,114 4,820 7,459	
	Rdc(Ω)	16.2 m 39.6 m 97.9 m 240.7 m 592.1 m 1.5 3.6 8.8 21.7 53.5 131.6	

