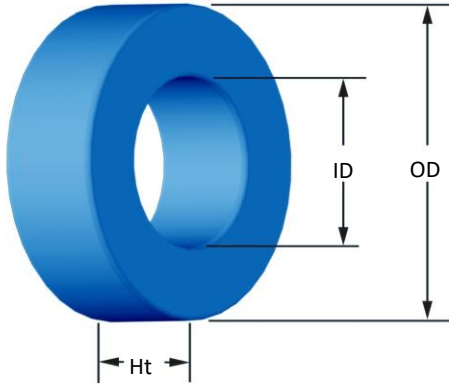




Part Number:

SH-400125-2

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	101.60 mm 102.87 mm	4.000 in 4.050 in
ID	(nom. - bare core) (min. - after coating)	57.15 mm 55.75 mm	2.250 in 2.195 in
Ht	(nom. - bare core) (max. - after coating)	16.51 mm 17.78 mm	0.650 in 0.700 in
Mass	(approximate)	490 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	3.52 cm ² 24.271 cm 85.5 cm ³ 24.4 cm ² 303 cm ² 11.1 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 228 nH/N ² N=140, #18 AWG 10 kHz 2.2 V ±8%	
Core Loss	Core Loss (mW/cm ³) = $\frac{f}{a + \frac{b}{B_{pk}^3} + \frac{c}{B_{pk}^{2.3}} + \frac{d}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ 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 16 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	44 56 70 88 110 138 172 215 268 335 417
		Rdc(Ω)	10.0 m 20.2 m 40.2 m 80.5 m 160.0 m 319.2 m 632.7 m 1.3 2.5 5.0 9.8
Full Winding	Turns	128 198 306 474 733 1,135 1,756 2,719 4,208 6,512 10,079	
	Rdc(Ω)	29.1 m 71.6 m 175.9 m 433.4 m 1.1 2.6 6.5 15.9 39.1 96.4 237.2	

