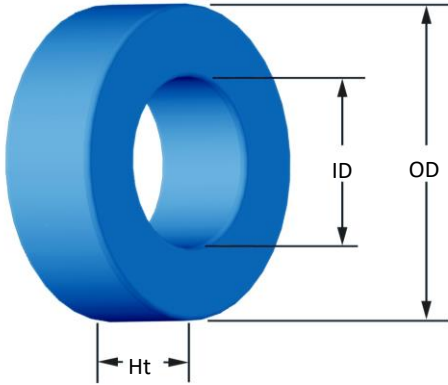




Part Number:

SH-141125-2

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	35.81 mm 36.63 mm	1.410 in 1.442 in
ID	(nom. - bare core) (min. - after coating)	22.35 mm 21.54 mm	0.880 in 0.848 in
Ht	(nom. - bare core) (max. - after coating)	10.46 mm 11.28 mm	0.412 in 0.444 in
Mass	(approximate)	35 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	0.678 cm ² 8.98 cm 6.09 cm ³ 3.64 cm ² 45.6 cm ² 4.84 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 117 nH/N ² N=80, #22 AWG 10 kHz 0.24 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 343 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	15 20 25 32 41 52 65 81 102 128 159
		Rdc(Ω)	1.5 m 3.2 m 6.3 m 12.8 m 26.1 m 52.7 m 104.7 m 207.5 m 415.6 m 829.5 m 1.6
Full Winding	Turns	19 30 46 71 109 169 262 406 628 972 1,505	
	Rdc(Ω)	1.9 m 4.8 m 11.6 m 28.4 m 69.4 m 171.2 m 422.1 m 1.0 2.6 6.3 15.5	

