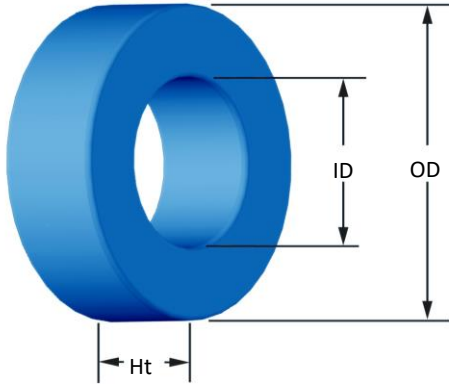




Part Number:

SH-250125-2

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	63.50 mm 64.77 mm	2.500 in 2.550 in
ID	(nom. - bare core) (min. - after coating)	31.37 mm 30.48 mm	1.235 in 1.200 in
Ht	(nom. - bare core) (max. - after coating)	25.00 mm 25.90 mm	0.984 in 1.020 in
Mass	(approximate)	320 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	3.89 cm ² 14.314 cm 55.8 cm ³ 7.30 cm ² 150 cm ² 10.1 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 430 nH/N ² N=100, #18 AWG 10 kHz 1.7 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 27 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	23 29 37 47 59 74 93 116 145 182 227
		Rdc(Ω)	4.8 m 9.6 m 19.5 m 39.4 m 78.6 m 156.9 m 313.5 m 622.0 m 1.2 2.5 4.9
Full Winding	Turns	38 59 91 142 219 339 525 813 1,258 1,947 3,013	
	Rdc(Ω)	7.9 m 19.6 m 48.0 m 119.0 m 291.9 m 718.6 m 1.8 4.4 10.7 26.4 65.0	

