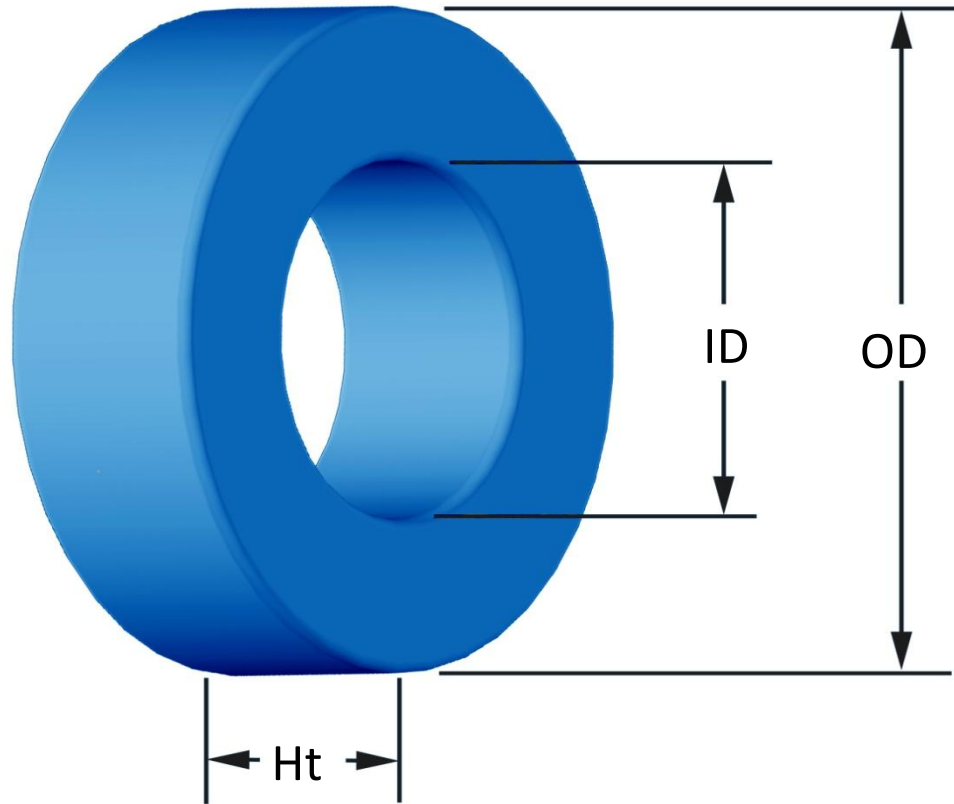




Part Number: **SH-157125-2**

Revision 20190403 - Generated 2019-Apr-04



(If coated, Max./Min. includes coating)

OD	(nom. - bare core) (max.)	39.88 mm 40.69 mm	1.570 in 1.602 in
ID	(nom. - bare core) (min.)	24.13 mm 23.32 mm	0.950 in 0.918 in
HT	(nom. - bare core) (max.)	14.48 mm 15.37 mm	0.570 in 0.605 in
Mass	(approximate)	60 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.07 cm ²	
	L _e - Eff. Mag. Path Length	9.85 cm	
	V _e - Eff. Core Volume	10.5 cm ³	
	WA - Min. Eff. Window Area	4.27 cm ²	
	sa - Surface Area	60.2 cm ²	
Inductance	μ _i (reference)	125	
	A _L value (nominal)	168 nH/N ²	
Core Loss	Test Winding	N=70, #20 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.33 V	
	AL tolerance	±8%	
	Core Loss(mW/cm ³)= $\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$		
DC Saturation	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}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	240 mW/cm ³	
	Core Loss (maximum)	276 mW/cm ³	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	216 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	17	22	28	35	45	56	70	88	111	138	173
		Rdc(Ω)	2.1 m	4.3 m	8.7 m	17.3 m	35.4 m	70.0 m	139.2 m	278.3 m	558.3 m	1.1	2.2
Full Winding	Turns	22	35	54	83	128	199	307	476	736	1,139	1,764	
	Rdc(Ω)	2.7 m	6.8 m	16.8 m	41.0 m	100.6 m	248.8 m	610.5 m	1.5	3.7	9.1	22.4	

