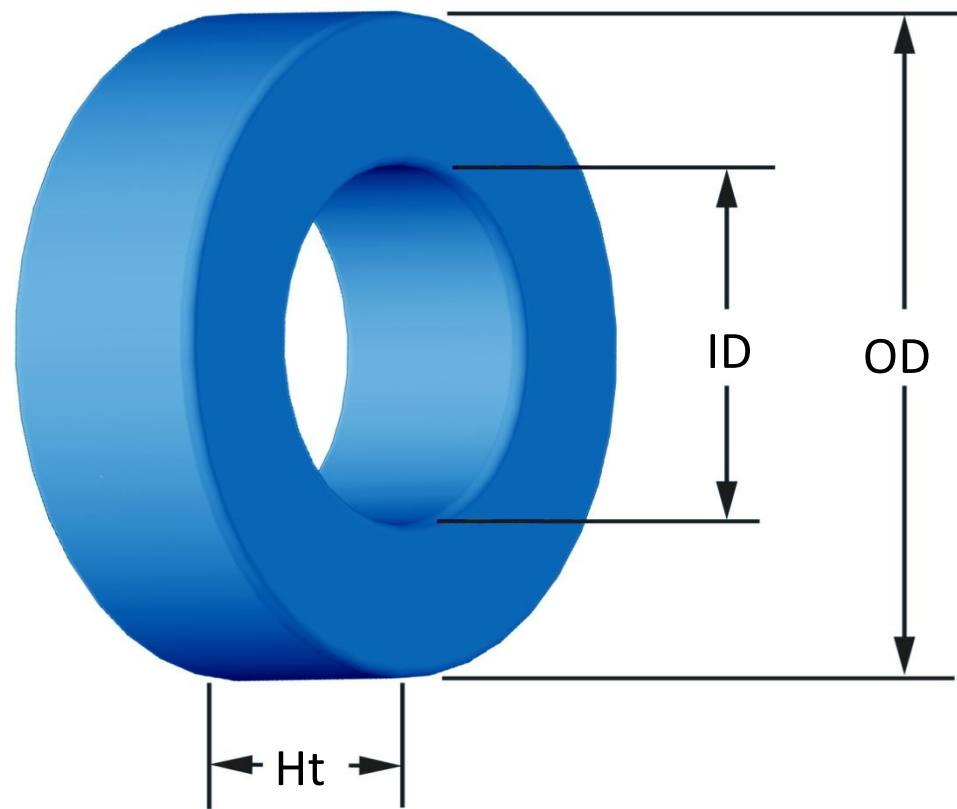




Part Number: **SH-014060-8**

Revision 20190403 - Generated 2019-Apr-04



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

OD	(nom. - bare core) (max.)	3.56 mm 3.76 mm	0.140 in 0.148 in									
ID	(nom. - bare core) (min.)	1.78 mm 1.52 mm	0.070 in 0.060 in									
HT	(nom. - bare core) (max.)	1.52 mm 1.73 mm	0.060 in 0.068 in									
Mass	(approximate)	0.06 grams										
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0137 cm ²										
	L _e - Eff. Mag. Path Length	0.817 cm										
	V _e - Eff. Core Volume	0.0107 cm ³										
	WA - Min. Eff. Window Area	0.0181 cm ²										
	sa - Surface Area	0.523 cm ²										
Inductance	μ _i (reference)	60										
	A _L value (nominal)	13 nH/N ²										
	Test Winding	N=30, #36 AWG										
	Frequency	10 kHz										
	Voltage on Agilent 4284A	0.002 V										
Core Loss	AL tolerance	±15%										
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$											
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=8.801E+08, c=5.421E+06, d=1.033E-14											
	B _{pk}	1000 G										
	frequency	50 kHz										
DC Saturation	Core Loss (nominal)	317 mW/cm ³										
	Core Loss (maximum)	365 mW/cm ³										
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and: a=1.000E-02, b=7.724E-06, c=1.612, d=0.000											
Coating/Pkg	H _{DC}	100 Oe										
	Percent Initial Perm(nom.)	43.6%										
	Percent Initial Perm(min.)	36.5%										
	Coating Type:	Parylene N										
Winding Table	Voltage Breakdown (min.)	500 Vrms										
	Limit	0.1 mA, 5 s										
	Package Quantity	36,000 Pcs/Box										
	Wire Size	AWG	30	32	34	36	38	40	42	44	-	-
Single Layer	mm	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-	-	-
	Turns	11	15	19	25	31	40	50	63	-	-	-
Full Winding	Rdc(Ω)	24.1 m	52.2 m	105.1 m	219.9 m	433.7 m	890.0 m	1.8	3.5	-	-	-
	Turns	12	18	28	43	67	103	159	247	-	-	-
Full Winding	Rdc(Ω)	26.2 m	62.6 m	154.9 m	378.3 m	937.3 m	2.3	5.6	13.9	-	-	-

