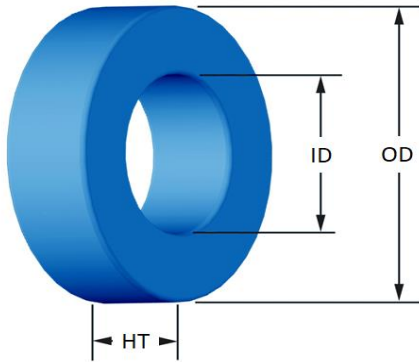




Part Number: SM-184060-2

Revision: 2023-Dec-06



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

	mm	in
OD	(nom. - bare core) 46.74 (max.) 47.63	1.840 1.875
ID	(nom. - bare core) 24.13 (min.) 23.32	0.950 0.918
HT	(nom. - bare core) 18.03 (max.) 18.92	0.710 0.745
Mass	(approximate) 140	grams
Magnetic Dimensions	A_e - Eff. Mag. Cross Section L_e - Eff. Mag. Path Length V_e - Eff. Core Volume W_A - Min. Eff. Window Area s_a - Surface Area m_{lt} - mean length per turn	1.99 cm ² 10.743 cm 21.4 cm ³ 4.27 cm ² 81.7 cm ² 7.38 cm
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 135 nH/N ² 70 Turns AWG# 20 10k Hz 0.62 V ±8%
Core Loss	Core Loss(mW/cm ³) = $\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=9.109E+08$, $c=1.221E+07$, $d=1.096E-14$	B_{pk} 1000 G frequency 50 k Hz Core Loss (nominal) 226 mW/cm ³ Core Loss (maximum) 260 mW/cm ³
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=9.058E-07$, $c=1.903$, $d=0.000$	H_{DC} 100 Oe Percent Initial Perm(nom.) 63.3 % Percent Initial Perm(min.) 54.9 %
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 80 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)	2.6 m	5.3 m	10.7 m	21.4 m	43.7 m	86.5 m	171.9 m	343.7 m	689.5 m	1.4	2.7	
Full Winding	Turns	22	35	54	83	128	199	307	476	736	1,139	1,764	
	Rdc(Ω)	3.3 m	8.4 m	20.7 m	50.7 m	124.3 m	307.3 m	753.9 m	1.9	4.6	11.3	27.7	

