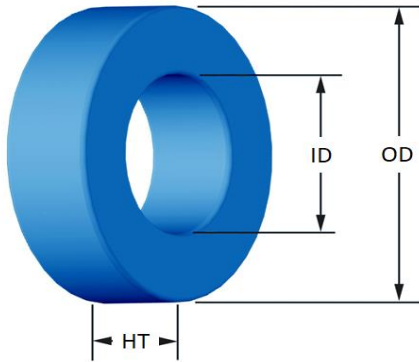




Part Number: **SM-130060-2**

Revision: 2023-Dec-06



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

	mm	in												
OD	(nom. - bare core) 33.02 (max.) 33.83	1.300 1.332												
ID	(nom. - bare core) 19.94 (min.) 19.30	0.785 0.760												
HT	(nom. - bare core) 10.67 (max.) 11.61	0.420 0.457												
Mass	(approximate) 36	grams												
Magnetic Dimensions	A_e - Eff. Mag. Cross Section 0.672 L_e - Eff. Mag. Path Length 8.15 V_e - Eff. Core Volume 5.48 W_A - Min. Eff. Window Area 2.93 s_a - Surface Area 40.1 m_{lt} - mean length per turn 4.74	cm^2 cm cm^3 cm^2 cm^2 cm												
Inductance	μ_i (reference) 60 A_L value (nominal) 61 Test Winding 70 Turns Frequency 10k Voltage on Agilent 4284A 0.21 AL tolerance $\pm 8\%$	nH/N ² 22 AWG# 22 Hz V												
Core Loss	$Core\ Loss(mW/cm^3) = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ <p>where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=9.109E+08$, $c=1.221E+07$, $d=1.096E-14$</p> <table border="1"> <tr> <td>B_{pk}</td> <td>1000</td> <td>G</td> </tr> <tr> <td>frequency</td> <td>50 k</td> <td>Hz</td> </tr> <tr> <td>Core Loss (nominal)</td> <td>226</td> <td>mW/cm³</td> </tr> <tr> <td>Core Loss (maximum)</td> <td>260</td> <td>mW/cm³</td> </tr> </table>		B_{pk}	1000	G	frequency	50 k	Hz	Core Loss (nominal)	226	mW/cm ³	Core Loss (maximum)	260	mW/cm ³
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DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ <p>where H expressed in oersteds, and: $a=1.000E-02$, $b=9.058E-07$, $c=1.903$, $d=0.000$</p> <table border="1"> <tr> <td>H_{DC}</td> <td>100</td> <td>Oe</td> </tr> <tr> <td>Percent Initial Perm(nom.)</td> <td>63.3</td> <td>%</td> </tr> <tr> <td>Percent Initial Perm(min.)</td> <td>54.9</td> <td>%</td> </tr> </table>		H_{DC}	100	Oe	Percent Initial Perm(nom.)	63.3	%	Percent Initial Perm(min.)	54.9	%			
H_{DC}	100	Oe												
Percent Initial Perm(nom.)	63.3	%												
Percent Initial Perm(min.)	54.9	%												
Coating/Pkg	Coating Type: Blue Epoxy Voltage Breakdown (min.): 1000 Vrms Limit: 0.1 mA, 5 s Package Quantity: 336 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	14	18	22	29	36	46	58	73	91	114	142	
		Rdc(Ω)	1.4 m	2.8 m	5.4 m	11.4 m	22.4 m	45.6 m	91.5 m	183.1 m	363.0 m	723.2 m	1.4	
Full Winding	Turns	15	24	37	57	88	136	211	326	504	780	1,208		
	Rdc(Ω)	1.5 m	3.7 m	9.1 m	22.3 m	54.9 m	134.9 m	332.8 m	817.6 m	2.0	4.9	12.2		

