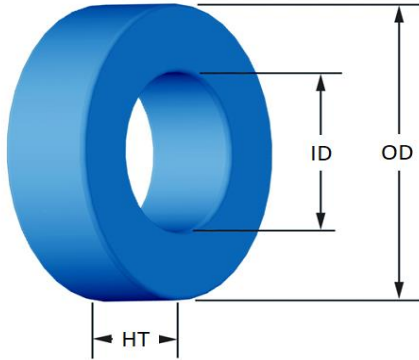




Part Number: **SM-106060-2**

Revision: 2023-Dec-06



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

	mm	in												
OD	(nom. - bare core) 26.92 (max.) 27.69	1.060 1.090												
ID	(nom. - bare core) 14.73 (min.) 14.10	0.580 0.555												
HT	(nom. - bare core) 11.18 (max.) 11.99	0.440 0.472												
Mass	(approximate) 27	grams												
Magnetic Dimensions	A_e - Eff. Mag. Cross Section 6.654 L_e - Eff. Mag. Path Length 6.35 V_e - Eff. Core Volume 4.15 WA - Min. Eff. Window Area 1.56 sa - Surface Area 28.8 mlt - mean length per turn 4.46	cm ² cm cm ³ cm ² cm ² cm												
Inductance	μ_i (reference) 60 A_L value (nominal) 75 Test Winding 80 Turns Frequency 10k Voltage on Agilent 4284A 0.23 AL tolerance ±8%	nH/N ² 26 Hz V												
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ <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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frequency	50 k	Hz												
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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: 504 Pcs/Box													
Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30	
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	
	Single Layer	Turns	12	16	20	26	33	41	52	66	82	103	129	
		Rdc(Ω)	1.8 m	3.7 m	7.4 m	15.3 m	30.8 m	60.9 m	122.8 m	247.8 m	489.7 m	978.2 m	1.9	
Full Winding	Turns	13	20	30	47	73	112	174	269	417	645	998		
	Rdc(Ω)	1.9 m	4.6 m	11.1 m	27.6 m	68.1 m	166.3 m	410.8 m	1.0	2.5	6.1	15.1		

