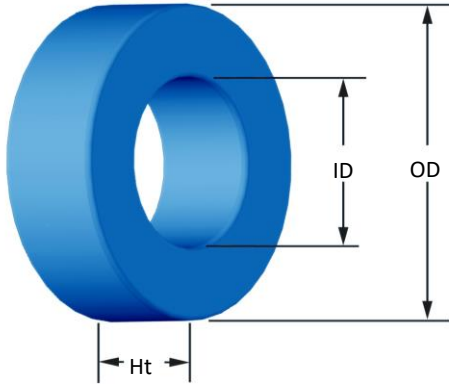




Part Number:

**SH-225060-2**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	57.15 mm 58.04 mm	2.250 in 2.285 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	35.56 mm 34.75 mm	1.400 in 1.368 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	13.97 mm 14.86 mm	0.550 in 0.585 in
<b>Mass</b>	(approximate)	120 grams	
<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section $L_e$ - Eff. Mag. Path Length $V_e$ - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	1.44 cm <sup>2</sup> 14.296 cm 20.7 cm <sup>3</sup> 9.48 cm <sup>2</sup> 109 cm <sup>2</sup> 7.04 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 75 nH/N <sup>2</sup> N=80, #18 AWG 10 kHz 0.51 V ±8%	
<b>Core Loss</b>	Core Loss (mW/cm <sup>3</sup> ) = $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=1.000E+06$ , $b=8.801E+08$ , $c=5.421E+06$ , $d=1.033E-14$ $B_{pk}$ frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 kHz 317 mW/cm <sup>3</sup> 365 mW/cm <sup>3</sup>	
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$ , $b=7.724E-06$ , $c=1.612$ , $d=0.000$ $H_{oc}$ Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	100 Oe 43.6% 36.5%	
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 80 Pcs/Box	
<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	Turns	27      34      43      54      68      85      106      133      166      207      259
		Rdc(Ω)	3.9 m   7.8 m   15.7 m   31.4 m   63.0 m   125.2 m   248.2 m   495.3 m   983.2 m   1.9      3.9
<b>Full Winding</b>	Turns	50      77      119      184      285      441      682      1,056      1,635      2,530      3,916	
	Rdc(Ω)	7.2 m   17.7 m   43.6 m   107.1 m   263.9 m   649.4 m   1.6      3.9      9.7      23.8      58.7	

