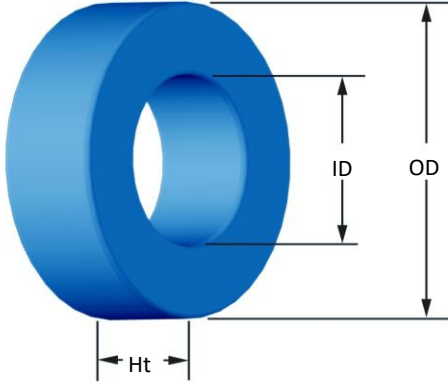




Part Number:

**SH-090060-2**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	22.86 mm 23.62 mm	0.900 in 0.930 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	13.97 mm 13.39 mm	0.550 in 0.527 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	7.62 mm 8.38 mm	0.300 in 0.330 in
<b>Mass</b>	(approximate)	10 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	0.331 cm <sup>2</sup> 5.67 cm 1.88 cm <sup>3</sup> 1.41 cm <sup>2</sup> 19.8 cm <sup>2</sup> 3.37 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 43 nH/N <sup>2</sup> N=80, #26 AWG 10 kHz 0.12 V ±8%	
<b>Core Loss</b>	Core Loss (mW/cm <sup>3</sup> ) = $\frac{f}{a + b \cdot B_{pk}^c + c} + d \cdot B_{pk}^2 \cdot f^2$ 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 1,210 Pcs/Box	
<b>Winding Table</b>	<b>Wire Size</b>	AWG	10 12 14 16 18 20 22 24 26 28 30
		mm	2.50 2.00 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315 0.250
	<b>Single Layer</b>	Turns	11 15 19 24 31 39 50 62 78 98 123
		Rdc(Ω)	1.2 m 2.6 m 5.3 m 10.6 m 21.8 m 43.7 m 89.1 m 175.8 m 351.6 m 702.7 m 1.4
<b>Full Winding</b>	Turns	11 18 27 42 65 101 157 243 376 581 900	
	Rdc(Ω)	1.2 m 3.2 m 7.5 m 18.6 m 45.8 m 113.2 m 279.8 m 688.8 m 1.7 4.2 10.3	

