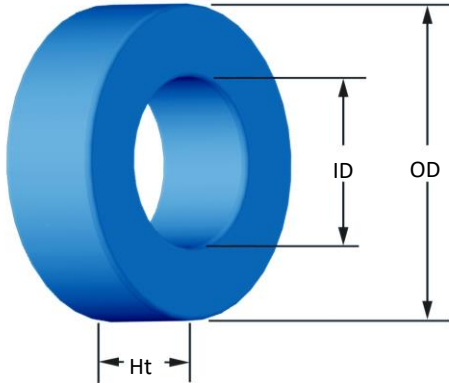




Part Number:

**SH-040060-2**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	10.16 mm 10.80 mm	0.400 in 0.425 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	5.08 mm 4.57 mm	0.200 in 0.180 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	3.96 mm 4.57 mm	0.156 in 0.180 in
<b>Mass</b>	(approximate)	1.3 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	0.100 cm <sup>2</sup> 2.38 cm 0.238 cm <sup>3</sup> 0.164 cm <sup>2</sup> 4.20 cm <sup>2</sup> 1.77 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 32 nH/N <sup>2</sup> N=55, #30 AWG 10 kHz 0.024 V $\pm 12\%$	
<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 9,000 Pcs/Box	
<b>Winding Table</b>	<b>Wire Size</b>	AWG	20 22 24 26 28 30 32 34 36 38 40
		mm	0.800 0.630 0.500 0.400 0.315 0.250 0.200 0.160 0.125 0.100 0.080
	<b>Single Layer</b>	Turns	12 15 19 25 32 40 50 63 80 100 125
		Rdc(Ω)	7.0 m 14.0 m 28.2 m 59.1 m 120.3 m 239.1 m 475.2 m 952.3 m 1.9 3.8 7.6
<b>Full Winding</b>	Turns	12 18 28 44 68 105 162 251 389 602 931	
	Rdc(Ω)	7.0 m 16.8 m 41.6 m 104.0 m 255.5 m 627.5 m 1.5 3.8 9.4 23.0 56.6	

