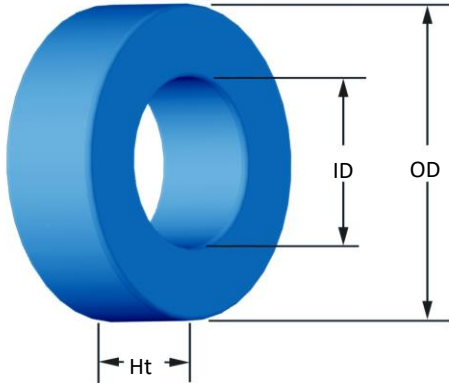




Part Number:

**SH-184026-2**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	46.74 mm 47.63 mm	1.840 in 1.875 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	24.13 mm 23.32 mm	0.950 in 0.918 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	18.03 mm 18.92 mm	0.710 in 0.745 in
<b>Mass</b>	(approximate)	110 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	1.99 cm <sup>2</sup> 10.743 cm 21.4 cm <sup>3</sup> 4.27 cm <sup>2</sup> 81.7 cm <sup>2</sup> 7.38 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	26 59 nH/N <sup>2</sup> N=70, #20 AWG 10 kHz 0.62 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: $a=1.000E+06$ , $b=3.287E+08$ , $c=5.779E+06$ , $d=1.240E-14$ $B_{pk}$ frequency Core Loss (nominal) Core Loss (maximum)	500 G 100 kHz 277 mW/cm <sup>3</sup> 318 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: $a=1.000E-02$ , $b=1.042E-06$ , $c=1.701$ , $d=0.000$ $H_{DC}$ Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	200 Oe 53.9% 46.1%	
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 100 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	17    22    28    35    45    56    70    88    111    138    173
		Rdc(Ω)	2.6 m   5.3 m   10.7 m   21.4 m   43.7 m   86.5 m   171.9 m   343.7 m   689.5 m   1.4   2.7
<b>Full Winding</b>	Turns	22    35    54    83    128    199    307    476    736    1,139    1,764	
	Rdc(Ω)	3.3 m   8.4 m   20.7 m   50.7 m   124.3 m   307.3 m   753.9 m   1.9   4.6   11.3   27.7	

