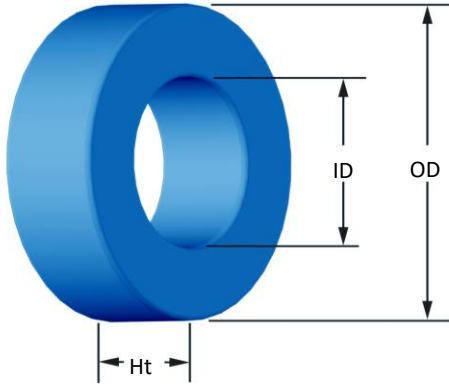




Part Number:

**SH-400026-2**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	101.60 mm 102.87 mm	4.000 in 4.050 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	57.15 mm 55.75 mm	2.250 in 2.195 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	16.51 mm 17.78 mm	0.650 in 0.700 in
<b>Mass</b>	(approximate)	440 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	3.52 cm <sup>2</sup> 24.271 cm 85.5 cm <sup>3</sup> 24.4 cm <sup>2</sup> 303 cm <sup>2</sup> 11.1 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	26 47.4 nH/N <sup>2</sup> N=140, #18 AWG 10 kHz 2.2 V ±8%	
<b>Core Loss</b>	Core Loss (mW/cm <sup>3</sup> ) = $\frac{f}{a + \frac{b}{B_{pk}^3} + \frac{c}{B_{pk}^{2.3}} + \frac{d}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ 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: $a=1.000E-02$ , $b=1.042E-06$ , $c=1.701$ , $d=0.000$ $H_{oc}$ 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 16 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	44      56      70      88      110      138      172      215      268      335      417
		Rdc(Ω)	10.0 m   20.2 m   40.2 m   80.5 m   160.0 m   319.2 m   632.7 m   1.3      2.5      5.0      9.8
<b>Full Winding</b>	Turns	128      198      306      474      733      1,135      1,756      2,719      4,208      6,512      10,079	
	Rdc(Ω)	29.1 m   71.6 m   175.9 m   433.4 m   1.1      2.6      6.5      15.9      39.1      96.4      237.2	

