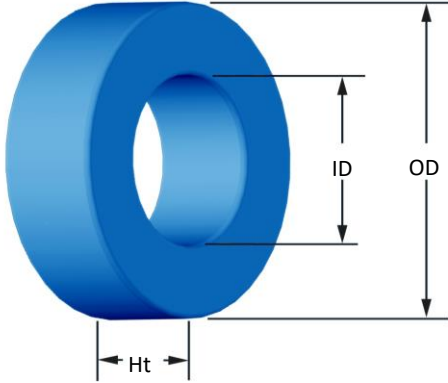




Part Number:

**SH-065125-2**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	16.64 mm 17.40 mm	0.655 in 0.685 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	10.16 mm 9.53 mm	0.400 in 0.375 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	6.35 mm 7.11 mm	0.250 in 0.280 in
<b>Mass</b>	(approximate)	4.5 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	0.192 cm <sup>2</sup> 4.11 cm 0.789 cm <sup>3</sup> 0.713 cm <sup>2</sup> 11.2 cm <sup>2</sup> 2.69 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	125 72 nH/N <sup>2</sup> N=70, #28 AWG 10 kHz 0.060 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: $a=7.985E+09$ , $b=1.378E+09$ , $c=4.041E+06$ , $d=7.891E-15$ $B_{pk}$ frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 kHz 240 mW/cm <sup>3</sup> 276 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: $a=1.000E-02$ , $b=3.265E-05$ , $c=1.587$ , $d=0.000$ $H_{DC}$ Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	40 Oe 46.8% 39.7%	
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 2,880 Pcs/Box	
<b>Winding Table</b>	<b>Wire Size</b>	AWG	12    14    16    18    20    22    24    26    28    30    32
		mm	2.000    1.600    1.250    1.000    0.800    0.630    0.500    0.400    0.315    0.250    0.200
	<b>Single Layer</b>	Turns	10    13    17    21    27    34    44    55    69    86    108
		Rdc(Ω)	1.4 m    2.9 m    6.0 m    11.8 m    24.1 m    48.3 m    99.4 m    197.7 m    394.4 m    781.8 m    1.6
<b>Full Winding</b>	Turns	9    14    21    33    51    79    123    190    295    456    706	
	Rdc(Ω)	1.3 m    3.1 m    7.4 m    18.5 m    45.6 m    112.3 m    278.0 m    682.9 m    1.7    4.1    10.2	

