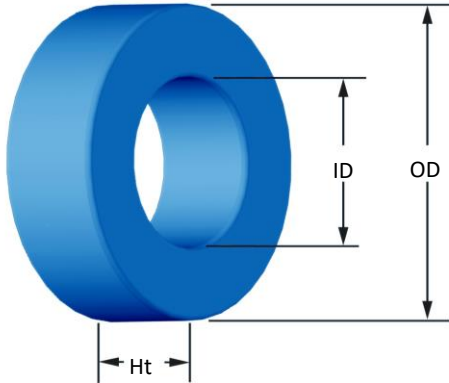




**Part Number:** **SH-027060-8**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	6.60 mm 7.24 mm	0.260 in 0.285 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	2.67 mm 2.29 mm	0.105 in 0.090 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	2.54 mm 3.18 mm	0.100 in 0.125 in
<b>Mass</b>	(approximate)	0.36 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	0.0467 cm <sup>2</sup> 1.36 cm 0.0640 cm <sup>3</sup> 0.0412 cm <sup>2</sup> 1.83 cm <sup>2</sup> 1.25 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 26 nH/N <sup>2</sup> N=35, #32 AWG 10 kHz 0.007 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	Parylene N 500 Vrms 0.1 mA, 5 s 21,600 Pcs/Box	
<b>Winding Table</b>	<b>Wire Size</b>	AWG	26    28    30    32    34    36    38    40    42    44    -
		mm	0.400    0.315    0.250    0.200    0.160    0.125    0.100    0.080    0.063    0.050    -
	<b>Single Layer</b>	Turns	11    14    19    24    30    38    49    61    77    96    -
		Rdc(Ω)	18.3 m    37.1 m    80.1 m    160.9 m    319.9 m    644.5 m    1.3    2.6    5.3    10.4    -
<b>Full Winding</b>	Turns	11    17    26    41    63    98    151    234    362    560    -	
	Rdc(Ω)	18.3 m    45.1 m    109.6 m    274.9 m    671.8 m    1.7    4.1    10.0    24.7    60.8    -	

