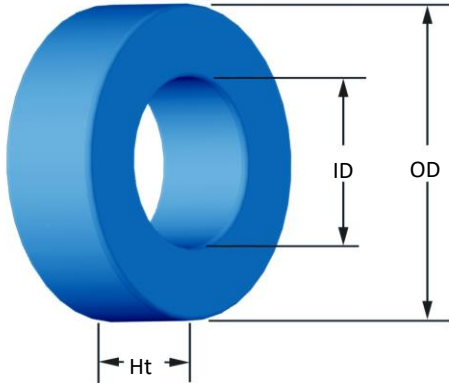




Part Number:

**SH-301060-2**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	77.80 mm 78.94 mm	3.063 in 3.108 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	49.23 mm 47.96 mm	1.938 in 1.888 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	15.88 mm 17.15 mm	0.625 in 0.675 in
<b>Mass</b>	(approximate)	240 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	2.22 cm <sup>2</sup> 19.612 cm 43.5 cm <sup>3</sup> 18.1 cm <sup>2</sup> 193 cm <sup>2</sup> 8.93 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 85 nH/N <sup>2</sup> N=120, #18 AWG 10 kHz 1.2 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: $a=1.000E+06$ , $b=8.801E+08$ , $c=5.421E+06$ , $d=1.033E-14$ $B_{pk}$ 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: $a=1.000E-02$ , $b=7.724E-06$ , $c=1.612$ , $d=0.000$ $H_{DC}$ 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 36 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	38      48      60      75      95      118      148      185      230      287      358
		Rdc(Ω)	7.0 m   14.0 m   27.9 m   55.4 m   111.5 m   220.3 m   439.5 m   873.8 m   1.7      3.4      6.8
<b>Full Winding</b>	Turns	95      146      227      351      543      840      1,300      2,012      3,114      4,820      7,459	
	Rdc(Ω)	17.4 m   42.6 m   105.4 m   259.1 m   637.6 m   1.6      3.9      9.5      23.4      57.6      141.7	

