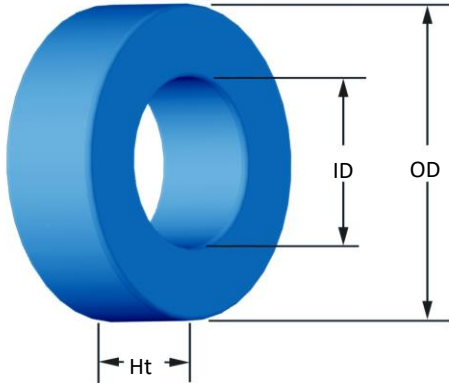




Part Number:

**SH-018060-8**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	4.65 mm 5.21 mm	0.183 in 0.205 in										
<b>ID</b>	(nom. - bare core) (min. - after coating)	2.36 mm 1.93 mm	0.093 in 0.076 in										
<b>Ht</b>	(nom. - bare core) (max. - after coating)	2.54 mm 3.30 mm	0.100 in 0.130 in										
<b>Mass</b>	(approximate)	0.17 grams											
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.0285 cm <sup>2</sup>											
	L <sub>e</sub> - Eff. Mag. Path Length	1.06 cm											
	V <sub>e</sub> - Eff. Core Volume	0.0302 cm <sup>3</sup>											
	WA - Min. Eff. Window Area	0.0293 cm <sup>2</sup>											
	sa - Surface Area	1.15 cm <sup>2</sup>											
	mlt - mean length per turn	1.08 cm											
<b>Inductance</b>	μ <sub>i</sub> (reference)	60											
	A <sub>L</sub> value (nominal)	20 nH/N <sup>2</sup>											
	Test Winding	N=30, #32 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.004 V											
	AL tolerance	±15%											
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B <sub>pk</sub> 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 <sub>pk</sub>	1000 G											
	frequency	50 kHz											
	Core Loss (nominal)	317 mW/cm <sup>3</sup>											
Core Loss (maximum)	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 <sub>0c</sub>	100 Oe											
	Percent Initial Perm.(nom.)	43.6%											
Percent Initial Perm.(min.)	36.5%												
<b>Coating/Pkg</b>	Coating Type:	Parylene N											
	Voltage Breakdown (min.)	500 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	27,000 Pcs/Box											
<b>Winding Table</b>	<b>Wire Size</b>	AWG	28	30	32	34	36	38	40	42	44	-	-
		mm	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-	-
	<b>Single Layer Winding</b>	Turns	12	15	20	25	32	40	51	64	81	-	-
		Rdc(Ω)	27.7 m	55.1 m	116.8 m	232.1 m	472.6 m	939.5 m	1.9	3.8	7.7	-	-
<b>Full Winding</b>	Turns	12	19	29	45	69	107	166	257	398	-	-	
	Rdc(Ω)	27.7 m	69.8 m	169.3 m	417.9 m	1.0	2.5	6.2	15.3	37.6	-	-	

