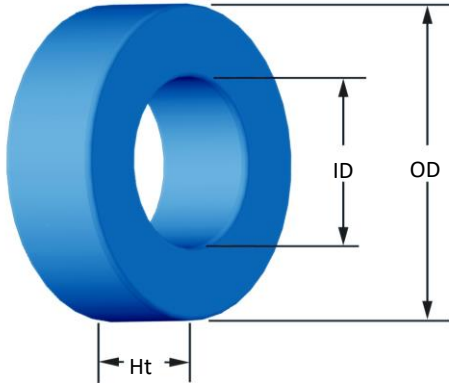




Part Number:

**SH-050026-2**

Revision 20170403 - Generated 2017-Apr-03



<b>OD</b>	(nom. - bare core) (max. - after coating)	12.70 mm 13.46 mm	0.500 in 0.530 in										
<b>ID</b>	(nom. - bare core) (min. - after coating)	7.62 mm 6.99 mm	0.300 in 0.275 in										
<b>Ht</b>	(nom. - bare core) (max. - after coating)	4.75 mm 5.51 mm	0.187 in 0.217 in										
<b>Mass</b>	(approximate)	1.8 grams											
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.114 cm <sup>2</sup>											
	L <sub>e</sub> - Eff. Mag. Path Length	3.12 cm											
	V <sub>e</sub> - Eff. Core Volume	0.356 cm <sup>3</sup>											
	WA - Min. Eff. Window Area	0.384 cm <sup>2</sup>											
	sa - Surface Area	6.67 cm <sup>2</sup>											
	mlt - mean length per turn	2.10 cm											
<b>Inductance</b>	μ <sub>i</sub> (reference)	26											
	A <sub>L</sub> value (nominal)	12 nH/N <sup>2</sup>											
	Test Winding	N=50, #28 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.025 V											
	AL tolerance	±8%											
<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=3.287E+08, c=5.779E+06, d=1.240E-14												
	B <sub>pk</sub>	500 G											
	frequency	100 kHz											
	Core Loss (nominal)	277 mW/cm <sup>3</sup>											
Core Loss (maximum)	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 <sub>0c</sub>	200 Oe											
	Percent Initial Perm.(nom.)	53.9%											
Percent Initial Perm.(min.)	46.1%												
<b>Coating/Pkg</b>	Coating Type:	Blue Epoxy											
	Voltage Breakdown (min.)	1000 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	5,400 Pcs/Box											
<b>Winding Table</b>	<b>Wire Size</b>	AWG	16	18	20	22	24	26	28	30	32	34	36
		mm	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125
	<b>Single Layer Winding</b>	Turns	11	15	19	24	31	39	50	63	79	98	123
		Rdc(Ω)	3.0 m	6.6 m	13.3 m	26.6 m	54.7 m	109.5 m	223.3 m	447.5 m	892.5 m	1.8	3.5
<b>Full Winding</b>	Turns	12	18	28	43	66	102	158	245	380	587	909	
	Rdc(Ω)	3.3 m	7.9 m	19.5 m	47.7 m	116.6 m	286.5 m	705.7 m	1.7	4.3	10.5	26.0	

