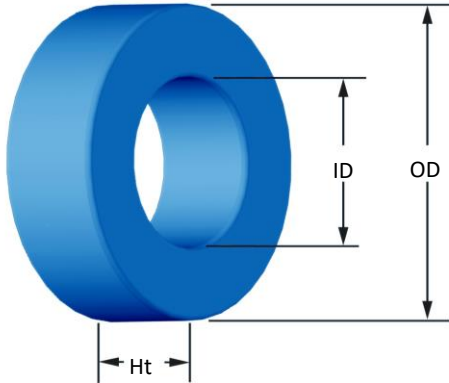




Part Number: **SH-050060-2**

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	12.70 mm 13.46 mm	0.500 in 0.530 in										
ID	(nom. - bare core) (min. - after coating)	7.62 mm 6.99 mm	0.300 in 0.275 in										
Ht	(nom. - bare core) (max. - after coating)	4.75 mm 5.51 mm	0.187 in 0.217 in										
Mass	(approximate)	2.0 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.114 cm ²											
	L _e - Eff. Mag. Path Length	3.12 cm											
	V _e - Eff. Core Volume	0.356 cm ³											
	WA - Min. Eff. Window Area	0.384 cm ²											
	sa - Surface Area	6.67 cm ²											
	mlt - mean length per turn	2.10 cm											
Inductance	μ _i (reference)	60											
	A _L value (nominal)	27 nH/N ²											
	Test Winding	N=50, #28 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.025 V											
	AL tolerance	±8%											
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B _{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}	1000 G											
	frequency	50 kHz											
	Core Loss (nominal)	317 mW/cm ³											
Core Loss (maximum)	365 mW/cm ³												
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.000E-02, b=7.724E-06, c=1.612, d=0.000												
	H _{0c}	100 Oe											
	Percent Initial Perm.(nom.)	43.6%											
Percent Initial Perm.(min.)	36.5%												
Coating/Pkg	Coating Type:	Blue Epoxy											
	Voltage Breakdown (min.)	1000 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	5,400 Pcs/Box											
Winding Table	Wire Size	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
	Single Layer Winding	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
Full Winding	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	

