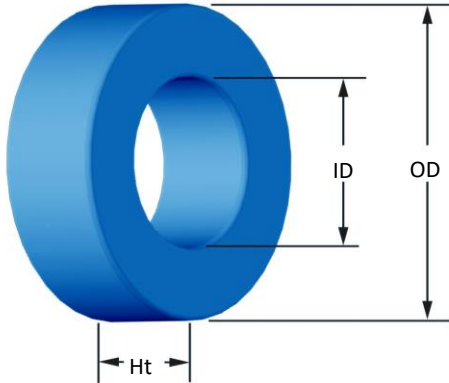




Part Number:

SH-038060-8

Revision 20170403 - Generated 2017-Apr-03



OD	(nom. - bare core) (max. - after coating)	9.65 mm 10.29 mm	0.380 in 0.405 in										
ID	(nom. - bare core) (min. - after coating)	4.78 mm 4.27 mm	0.188 in 0.168 in										
Ht	(nom. - bare core) (max. - after coating)	3.96 mm 4.57 mm	0.156 in 0.180 in										
Mass	(approximate)	1.2 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0945 cm ²											
	L _e - Eff. Mag. Path Length	2.18 cm											
	V _e - Eff. Core Volume	0.206 cm ³											
	WA - Min. Eff. Window Area	0.143 cm ²											
	sa - Surface Area	3.88 cm ²											
	mlt - mean length per turn	1.73 cm											
Inductance	μ _i (reference)	60											
	A _L value (nominal)	32 nH/N ²											
	Test Winding	N=45, #30 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.019 V											
	AL tolerance	±12%											
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:	Parylene N											
	Voltage Breakdown (min.)	500 Vrms											
	Limit	0.1 mA, 5 s											
	Package Quantity	10,800 Pcs/Box											
Winding Table	Wire Size	AWG	20	22	24	26	28	30	32	34	36	38	40
		mm	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080
	Single Layer Winding	Turns	11	14	18	23	29	37	47	59	74	93	116
		Rdc(Ω)	6.3 m	12.8 m	26.2 m	53.2 m	106.8 m	216.6 m	437.6 m	873.7 m	1.7	3.5	6.9
Full Winding	Turns	10	16	25	38	59	92	142	219	339	525	813	
	Rdc(Ω)	5.8 m	14.6 m	36.4 m	88.0 m	217.2 m	538.6 m	1.3	3.2	8.0	19.7	48.4	

