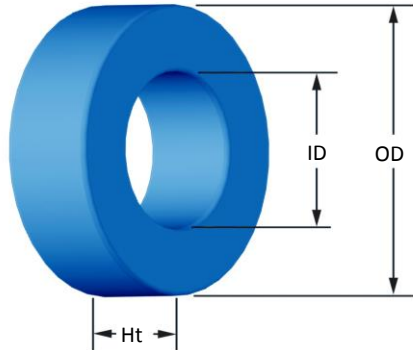




Part Number: FS-090014-2

Revision 20190626 - Generated 2019-Jun-27



(If coated, Max./Min. includes coating)

OD	(nom. - bare core) (max.)	22.86 mm 23.62 mm	0.900 in 0.930 in
ID	(nom. - bare core) (min.)	13.97 mm 13.39 mm	0.550 in 0.527 in
HT	(nom. - bare core) (max.)	7.62 mm 8.38 mm	0.300 in 0.330 in
Mass	(approximate)	10 grams	
Magnetic Dimensions	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	0.331 cm ² 5.67 cm 1.88 cm ³ 1.41 cm ² 19.8 cm ² 3.37 cm	
Inductance	μ _i (reference) A _l value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	14 9.9 nH/N ² N=80, #26 AWG 10 kHz 0.12 V ±8%	
Core Loss	Core Loss(mW/cm ³): $\frac{f}{Bpk^3} + \frac{f}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$ where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=6.131E+07, c=2.047E+06, d=6.095E-14 B _{pk} frequency Core Loss (nominal) Core Loss (maximum)	300 G 100 kHz 399 mW/cm ³ 459 mW/cm ³	
DC Saturation	%μ _i $\frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: a=1.000E-02, b=2.600E-07, c=1.557, d=0.000 H _{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	200 Oe 90.9% 88.3%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 1,210 Pcs/Box	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	11	15	19	24	31	39	50	62	78	98	123
		Rdc(Ω)	1.2 m	2.6 m	5.3 m	10.6 m	21.8 m	43.7 m	89.1 m	175.8 m	351.6 m	702.7 m	1.4
	Full Winding	Turns	11	18	27	42	65	101	157	243	376	581	900
		Rdc(Ω)	1.2 m	3.2 m	7.5 m	18.6 m	45.8 m	113.2 m	279.8 m	688.8 m	1.7	4.2	10.3

