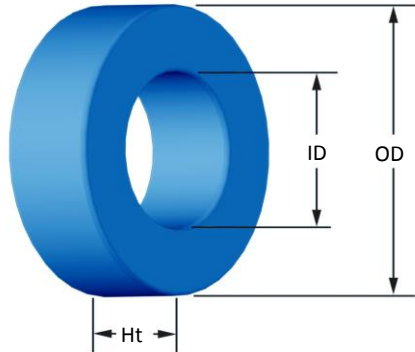




Part Number: FS-132090-2

Revision 20190626 - Generated 2019-Jun-27



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

OD	(nom. - bare core) (max.)	33.02 mm 33.83 mm	1.300 in 1.332 in
ID	(nom. - bare core) (min.)	19.94 mm 19.30 mm	0.785 in 0.760 in
HT	(nom. - bare core) (max.)	11.18 mm 11.99 mm	0.440 in 0.472 in
Mass	(approximate)	39 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	0.698 cm ² 8.15 cm 5.69 cm ³ 2.93 cm ² 40.6 cm ² 4.82 cm	
Inductance	μ _i (reference) A _l value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	90 96.9 nH/N ² N=70, #22 AWG 10 kHz 0.22 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=5.648E+08, c=7.440E+04, d=6.942E-14 B _{pk} frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 kHz 869 mW/cm ³ 999 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=8.566E-06, c=1.584, d=0.000 H _{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	50 Oe 70.4% 64.0%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 448 Pcs/Box	

Winding Table	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	14	18	22	29	36	46	58	73	91	114	142
		Rdc(Ω)	1.4 m	2.8 m	5.5 m	11.6 m	22.8 m	46.3 m	92.9 m	186.0 m	368.8 m	734.8 m	1.5
	Full Winding	Turns	15	24	37	57	88	136	211	326	504	780	1,208
		Rdc(Ω)	1.5 m	3.8 m	9.3 m	22.7 m	55.7 m	137.0 m	338.1 m	830.8 m	2.0	5.0	12.4

