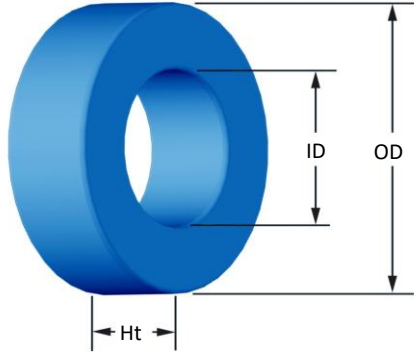




Part Number: FS-014090-8

Revision 20201110 - Generated 2020-Nov-10



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

OD	(nom. - bare core) (max.)	3.56 mm 3.76 mm	0.140 in 0.148 in
ID	(nom. - bare core) (min.)	1.78 mm 1.52 mm	0.070 in 0.060 in
HT	(nom. - bare core) (max.)	1.52 mm 1.73 mm	0.060 in 0.068 in
Mass	(approximate)	0.07 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	0.0137 cm ² 0.817 cm 0.0107 cm ³ 0.0181 cm ² 0.523 cm ² 0.646 cm	
Inductance	μ _i (reference) A _l value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	90 19 nH/N ² N=30, #36 AWG 10 kHz 0.002 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=4.222E+08, b=6.073E+08, c=2.905E+06, d=4.589E-14 B _{pk} frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 kHz 571 mW/cm ³ 657 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=9.719E-07, c=1.995, d=0.000 H _{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	50 Oe 80.7% 74.4%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Parylene N 500 Vrms 0.1 mA, 5 s 36,000 Pcs/Box	

Winding Table	Wire Size	AWG	30	32	34	36	38	40	42	44	-	-	-
		mm	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-	-	-
	Single Layer	Turns	11	15	19	25	31	40	50	63	-	-	-
		Rdc(Ω)	24.1 m	52.2 m	105.1 m	219.9 m	433.7 m	890.0 m	1.8	3.5	-	-	-
Full Winding	Turns	12	18	28	43	67	103	159	247	-	-	-	
	Rdc(Ω)	26.2 m	62.6 m	154.9 m	378.3 m	937.3 m	2.3	5.6	13.9	-	-	-	

