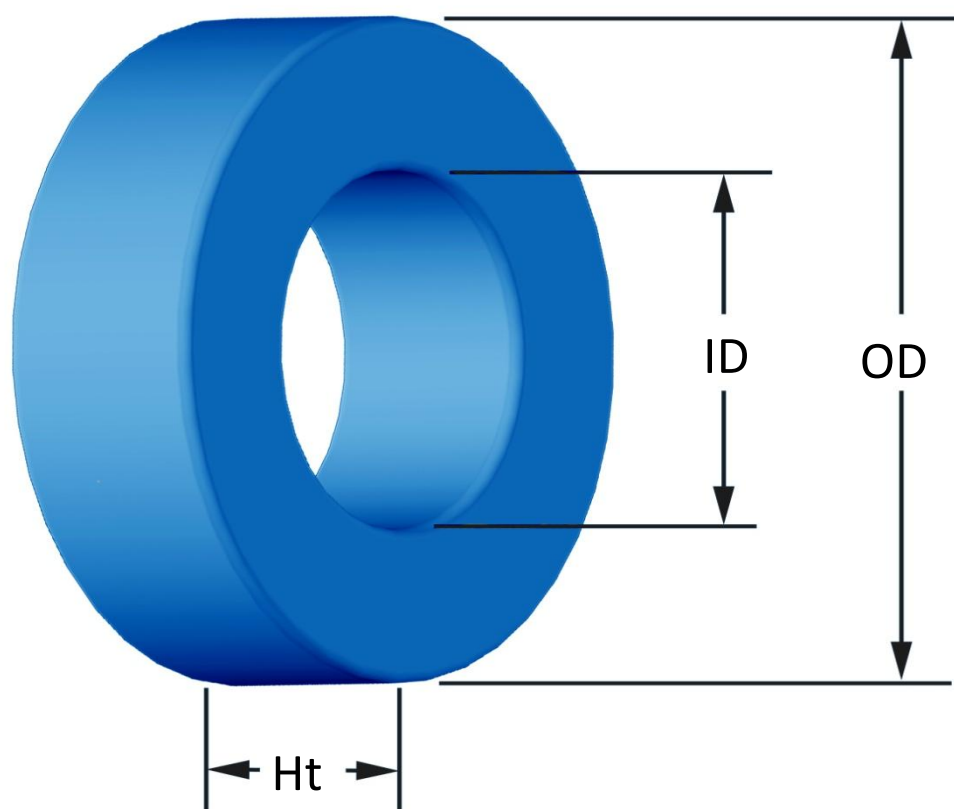




Part Number: **FS-014060-8**

Revision 20190529 - Generated 2019-May-29



(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	0.0137 cm ²	
	L _e - Eff. Mag. Path Length	0.817 cm	
	V _e - Eff. Core Volume	0.0107 cm ³	
	WA - Min. Eff. Window Area	0.0181 cm ²	
	sa - Surface Area	0.523 cm ²	
Inductance	μ _i (reference)	60	
	A _L value (nominal)	13 nH/N ²	
	Test Winding	N=30, #36 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.002 V	
Core Loss	AL tolerance	±8%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=3.903E+08, c=3.785E+06, d=5.229E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
DC Saturation	Core Loss (nominal)	676 mW/cm ³	
	Core Loss (maximum)	778 mW/cm ³	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=1.949E-07, c=2.099, d=0.000		
	H _{DC}	150 Oe	
Coating/Pkg	Percent Initial Perm(nom.)	58.1%	
	Percent Initial Perm(min.)	48.6%	
	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	36,000 Pcs/Box	
	Wire Size	AWG	30 32 34 36 38 40 42 44
Winding Table		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

