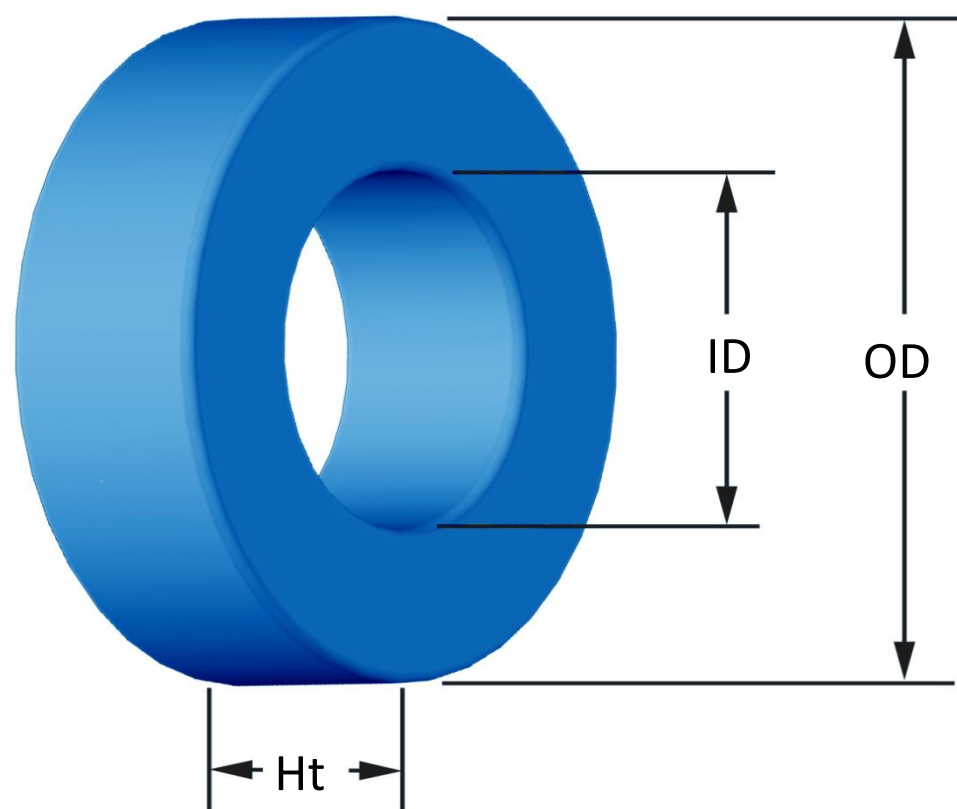




Part Number: **FS-025075-8**

Revision 20190529 - Generated 2019-May-29



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

OD	(nom. - bare core) (max.)	6.35 mm 6.99 mm	0.250 in 0.275 in
ID	(nom. - bare core) (min.)	2.79 mm 2.29 mm	0.110 in 0.090 in
HT	(nom. - bare core) (max.)	2.79 mm 3.43 mm	0.110 in 0.135 in
Mass	(approximate)	0.44 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0476 cm ²	
	L _e - Eff. Mag. Path Length	1.36 cm	
	V _e - Eff. Core Volume	0.0642 cm ³	
	WA - Min. Eff. Window Area	0.0412 cm ²	
	sa - Surface Area	1.80 cm ²	
Inductance	μ _i (reference)	75	
	A _L value (nominal)	30 nH/N ²	
Core Loss	Test Winding	N=30, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.006 V	
	AL tolerance	±8%	
	Core Loss(mW/cm ³)= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
DC Saturation	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.883E+08, b=5.098E+08, c=1.162E+06, d=5.024E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	772 mW/cm ³	
	Core Loss (maximum)	887 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=3.486E-06, c=1.682, d=0.000		
	H _{DC}	80 Oe	
	Percent Initial Perm(nom.)	64.4%	
Coating/Pkg	Percent Initial Perm(min.)	57.1%	
	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
	Limit	0.1 mA, 5 s	
Winding Table	Package Quantity	21,600 Pcs/Box	
	Wire Size	AWG	26, 28, 30, 32, 34, 36, 38, 40, 42, 44
Winding Table	Single Layer	Turns	11, 14, 19, 24, 30, 38, 49, 61, 77, 96
	Full Winding	Rdc(Ω)	18.7 m, 37.9 m, 81.7 m, 164.2 m, 326.3 m, 657.4 m, 1.3, 2.7, 5.4, 10.6
		Turns	11, 17, 26, 41, 63, 98, 151, 234, 362, 560
	Winding Table	Rdc(Ω)	18.7 m, 46.0 m, 111.8 m, 280.4 m, 685.3 m, 1.7, 4.2, 10.2, 25.2, 62.0

