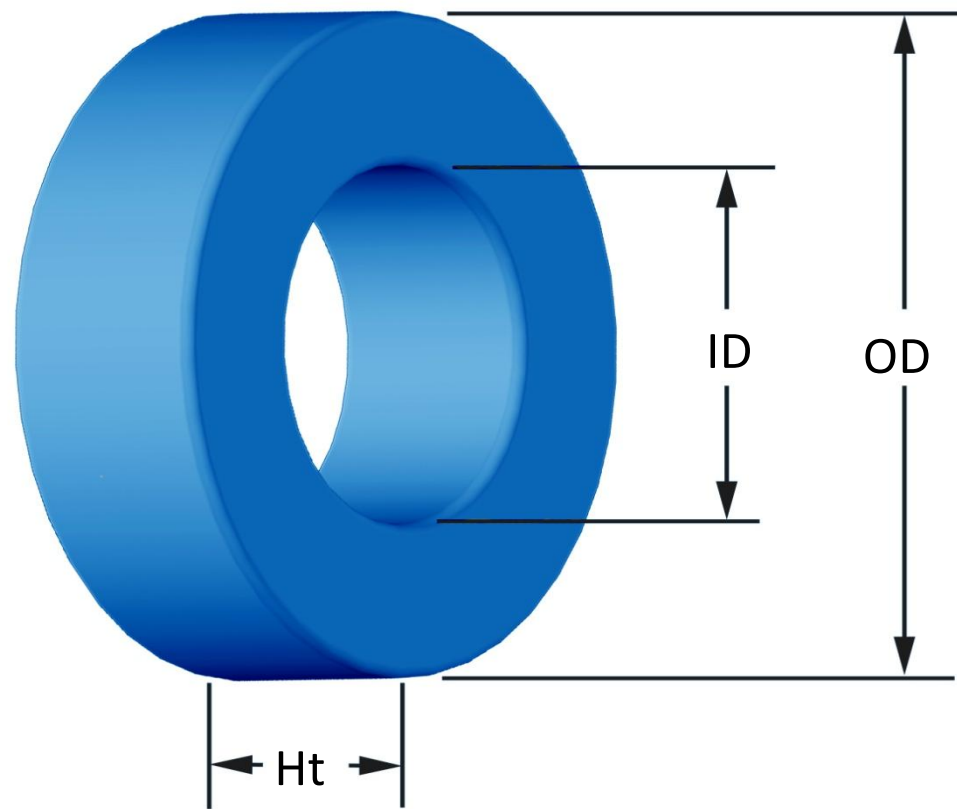




**Part Number:** **FS-200026-2**

Revision 20190529 - Generated 2019-May-29



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

<b>OD</b>	(nom. - bare core) (max.)	50.80 mm 51.69 mm	2.000 in 2.035 in
<b>ID</b>	(nom. - bare core) (min.)	31.75 mm 30.94 mm	1.250 in 1.218 in
<b>HT</b>	(nom. - bare core) (max.)	13.46 mm 14.35 mm	0.530 in 0.565 in
<b>Mass</b>	(approximate)	100 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	1.25 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	12.733 cm	
	V <sub>e</sub> - Eff. Core Volume	15.9 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	7.52 cm <sup>2</sup>	
	sa - Surface Area	88.2 cm <sup>2</sup>	
<b>Inductance</b>	μ <sub>i</sub> (reference)	26	
	A <sub>L</sub> value (nominal)	32 nH/N <sup>2</sup>	
<b>Core Loss</b>	Test Winding	N=70, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.39 V	
	AL tolerance	±8%	
	Core Loss(mW/cm <sup>3</sup> )=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
<b>DC Saturation</b>	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=1.812E+08, c=3.251E+06, d=6.158E-14		
	B <sub>pk</sub>	300 G	
	frequency	100 kHz	
	Core Loss (nominal)	214 mW/cm <sup>3</sup>	
<b>Coating/Pkg</b>	Core Loss (maximum)	246 mW/cm <sup>3</sup>	
	%μ <sub>i</sub> =	$\frac{1}{a + b \cdot H^c} + d$	
<b>Winding Table</b>	where H expressed in oersteds, and: a=1.000E-02, b=9.210E-08, c=1.912, d=0.000		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	81.2%	
	Percent Initial Perm(min.)	75.3%	
<b>Coating/Pkg</b>	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
<b>Winding Table</b>	Limit	0.1 mA, 5 s	
	Package Quantity	125 Pcs/Box	

<b>Wire Size</b>	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
<b>Single Layer</b>	Turns	23	30	38	48	60	75	94	118	148	184	230
	Rdc(Ω)	3.1 m	6.4 m	12.8 m	25.8 m	51.2 m	101.9 m	203.0 m	405.4 m	808.6 m	1.6	3.2
<b>Full Winding</b>	Turns	39	61	94	146	226	350	541	837	1,296	2,006	3,104
	Rdc(Ω)	5.2 m	12.9 m	31.7 m	78.4 m	193.0 m	475.3 m	1.2	2.9	7.1	17.4	42.9

