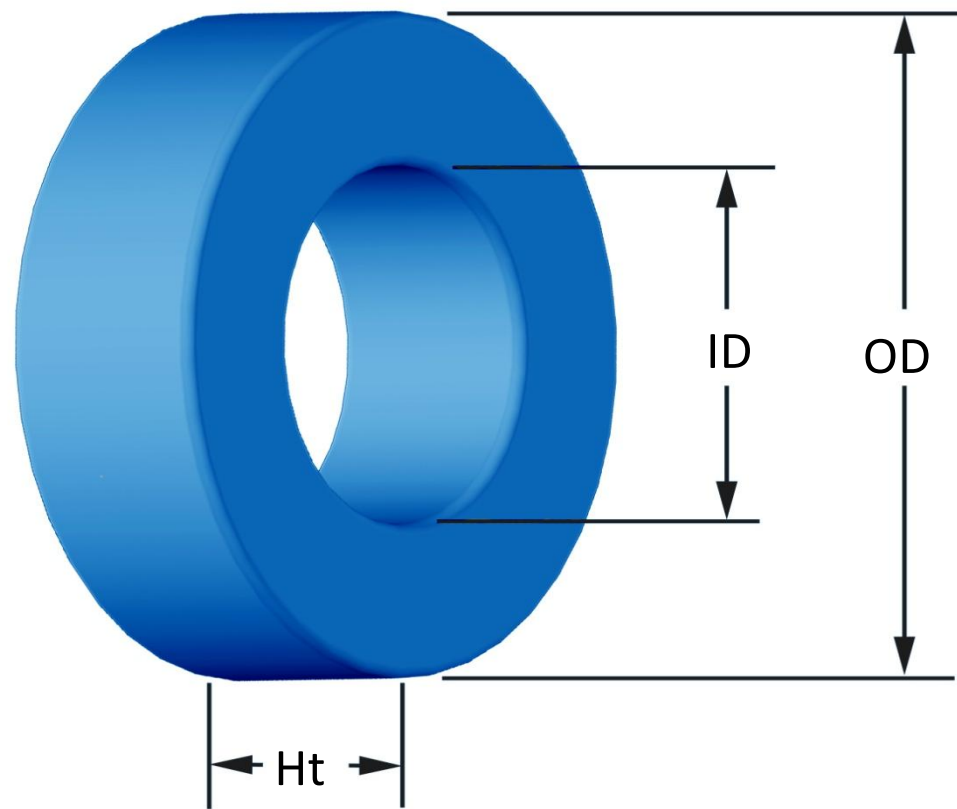




**Part Number:** **FS-028060-8**

Revision 20190529 - Generated 2019-May-29



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

<b>OD</b>	(nom. - bare core) (max.)	7.04 mm 7.67 mm	0.277 in 0.302 in
<b>ID</b>	(nom. - bare core) (min.)	3.96 mm 3.45 mm	0.156 in 0.136 in
<b>HT</b>	(nom. - bare core) (max.)	5.08 mm 5.72 mm	0.200 in 0.225 in
<b>Mass</b>	(approximate)	0.86 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.0750 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	1.68 cm	
	V <sub>e</sub> - Eff. Core Volume	0.126 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	0.0935 cm <sup>2</sup>	
	sa - Surface Area	2.80 cm <sup>2</sup>	
<b>Inductance</b>	μ <sub>i</sub> (reference)	60	
	A <sub>L</sub> value (nominal)	33 nH/N <sup>2</sup>	
<b>Core Loss</b>	Test Winding	N=40, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.013 V	
	AL tolerance	±8%	
	Core Loss(mW/cm <sup>3</sup> )= $\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$	where B <sub>pk</sub> 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>DC Saturation</b>	B <sub>pk</sub>	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	676 mW/cm <sup>3</sup>	
	Core Loss (maximum)	778 mW/cm <sup>3</sup>	
<b>Coating/Pkg</b>	%μ <sub>i</sub> = $\frac{1}{a + b \cdot H^c} + d$	where H expressed in oersteds, and: a=1.000E-02, b=1.949E-07, c=2.099, d=0.000	
	H <sub>DC</sub>	150 Oe	
	Percent Initial Perm(nom.)	58.1%	
	Percent Initial Perm(min.)	48.6%	
<b>Winding Table</b>	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	12,600 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	AWG	22	24	26	28	30	32	34	36	38	40	42
		mm	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063
	<b>Single Layer</b>	Turns	11	14	18	23	29	37	47	59	75	93	117
		Rdc(Ω)	10.1 m	20.5 m	41.9 m	85.1 m	170.7 m	346.3 m	699.6 m	1.4	2.8	5.6	11.1
<b>Full Winding</b>	Turns	10	16	25	39	60	92	143	222	343	531	821	
	Rdc(Ω)	9.2 m	23.4 m	58.2 m	144.3 m	353.1 m	861.1 m	2.1	5.3	12.9	31.8	78.2	

