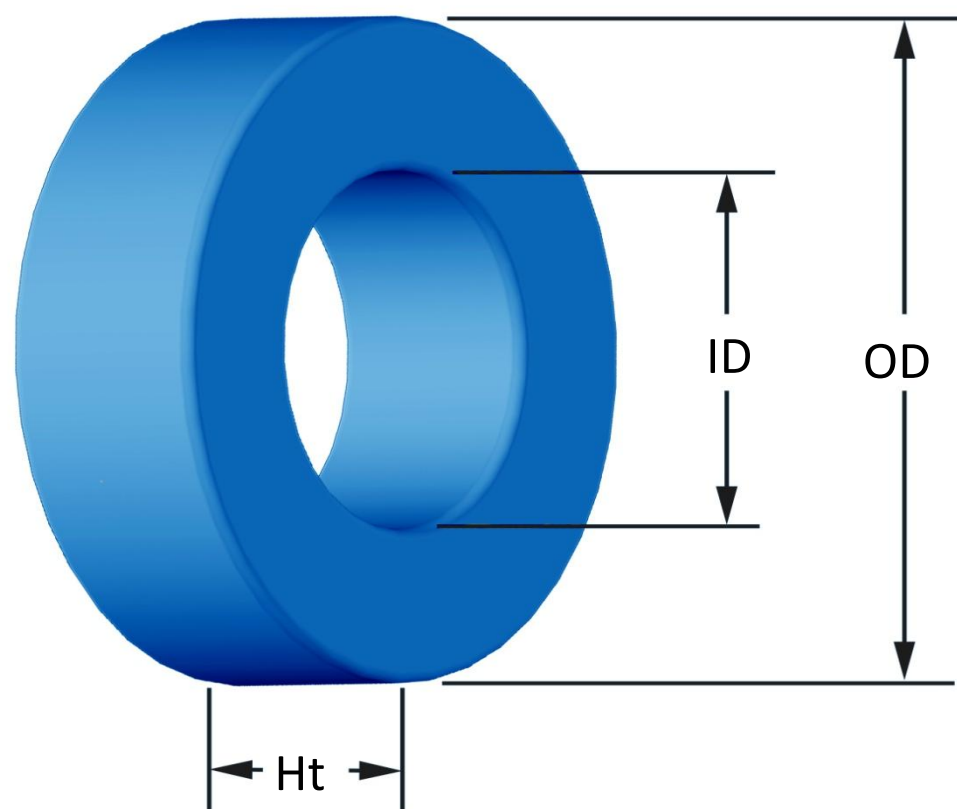




**Part Number:** FS-068040-2H127

Revision 20190529 - Generated 2019-May-29



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

<b>OD</b>	(nom. - bare core) (max.)	17.27 mm 18.03 mm	0.680 in 0.710 in
<b>ID</b>	(nom. - bare core) (min.)	9.65 mm 9.02 mm	0.380 in 0.355 in
<b>HT</b>	(nom. - bare core) (max.)	12.70 mm 13.46 mm	0.500 in 0.530 in
<b>Mass</b>	(approximate)	13 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.464 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	4.14 cm	
	V <sub>e</sub> - Eff. Core Volume	1.92 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	0.639 cm <sup>2</sup>	
	sa - Surface Area	15.8 cm <sup>2</sup>	
<b>Inductance</b>	μ <sub>i</sub> (reference)	40	
	A <sub>L</sub> value (nominal)	58 nH/N <sup>2</sup>	
<b>Core Loss</b>	Test Winding	N=70, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.14 V	
	AL tolerance	±8%	
	Core Loss(mW/cm <sup>3</sup> )= $\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$		
<b>DC Saturation</b>	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=3.071E+08, c=3.524E+06, d=5.634E-14		
	B <sub>pk</sub>	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	780 mW/cm <sup>3</sup>	
	Core Loss (maximum)	897 mW/cm <sup>3</sup>	
<b>DC Saturation</b>	%μ <sub>i</sub> = $\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=6.314E-08, c=2.151, d=0.000		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	64.0%	
<b>Coating/Pkg</b>	Percent Initial Perm(min.)	54.5%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
<b>Winding Table</b>	Package Quantity	900 Pcs/Box	
	Wire Size	AWG	14 16 18 20 22 24 26 28 30 32 34
<b>Single Layer</b>	mm	1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315 0.250 0.200 0.160	
	Turns	12 15 20 26 32 41 52 65 82 102 128	
<b>Full Winding</b>	Rdc(Ω)	4.0 m 8.0 m 16.9 m 35.0 m 68.5 m 139.5 m 281.4 m 559.5 m 1.1 2.2 4.4	
	Turns	12 19 30 46 71 110 170 264 408 632 978	
<b>Full Winding</b>	Rdc(Ω)	4.0 m 10.1 m 25.4 m 61.9 m 151.9 m 374.3 m 920.1 m 2.3 5.6 13.8 33.9	

