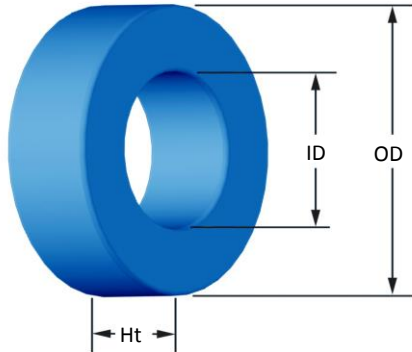




**Part Number: FS-306060-2**

Revision 20191114 - Generated 2019-Nov-14



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

<b>OD</b>	(nom. - bare core)	77.80 mm	3.063 in
	(max.)	78.94 mm	3.108 in
<b>ID</b>	(nom. - bare core)	39.34 mm	1.549 in
	(min.)	38.34 mm	1.509 in
<b>HT</b>	(nom. - bare core)	25.85 mm	1.018 in
	(max.)	26.85 mm	1.057 in
<b>Mass</b>	(approximate)	550 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	4.78 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	17 cm	
	V <sub>e</sub> - Eff. Core Volume	81.5 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	11.5 cm <sup>2</sup>	
	sa - Surface Area	211 cm <sup>2</sup>	
	mlt - mean length per turn	11.3 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	60	
	A <sub>l</sub> value (nominal)	205 nH/N <sup>2</sup>	
	Test Winding	N=120, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	2.5 V	
	AL tolerance	±8%	
<b>Core Loss</b>	Core Loss(mW/cm <sup>3</sup> ): $\frac{f}{B_{pk}^3} + \frac{f}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	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 <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>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=1.949E-07, c=2.099, d=0.000		
	H <sub>DC</sub>	150 Oe	
	Percent Initial Perm.(nom.)	58.1%	
Percent Initial Perm.(min.)	48.6%		
<b>Coating/Pkg</b>	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	27 Pcs/Box	

<b>Winding Table</b>	<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	30	38	47	60	75	94	118	147	184	229	286
		Rdc(Ω)	7.0 m	14.1 m	27.7 m	56.3 m	111.9 m	223.1 m	445.5 m	882.6 m	1.8	3.5	6.9
<b>Full Winding</b>	Turns	60	94	145	224	347	537	831	1,286	1,990	3,080	4,767	
	Rdc(Ω)	14.0 m	34.9 m	85.6 m	210.2 m	517.9 m	1.3	3.1	7.7	19.0	46.8	115.1	

