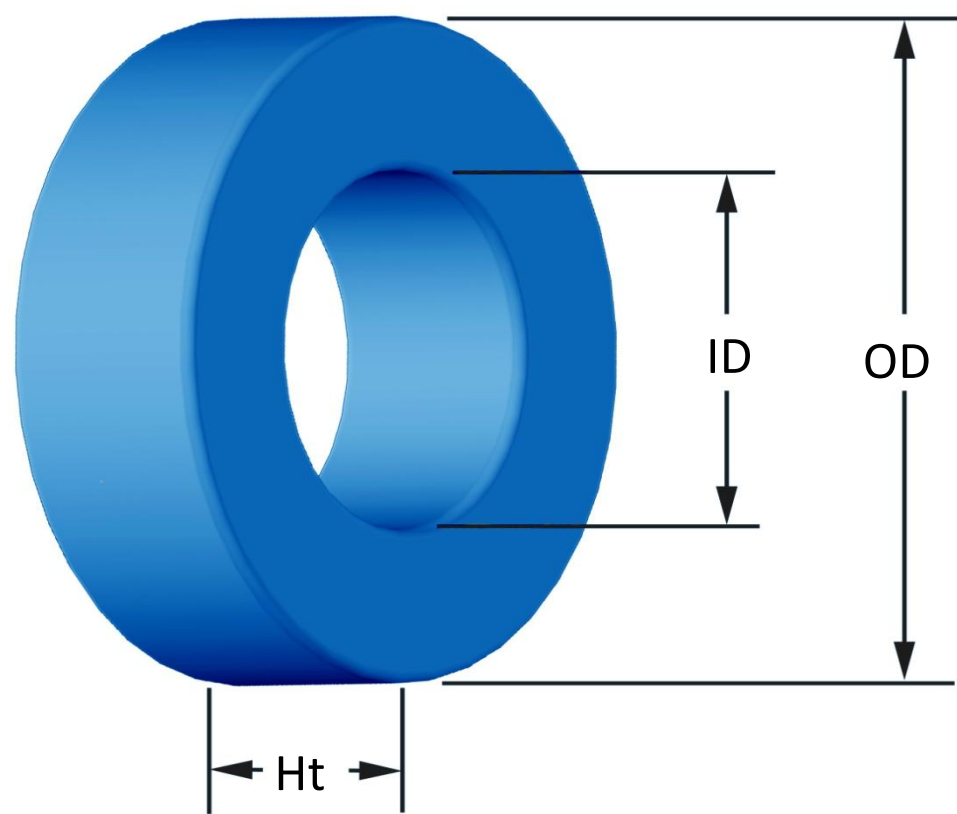




Part Number: **FS-300026-2**

Revision 20190529 - Generated 2019-May-29



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

OD	(nom. - bare core)	77.80 mm	3.063 in
	(max.)	78.94 mm	3.108 in
ID	(nom. - bare core)	49.23 mm	1.938 in
	(min.)	47.96 mm	1.888 in
HT	(nom. - bare core)	12.70 mm	0.500 in
	(max.)	13.97 mm	0.550 in
Mass	(approximate)	220 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.77 cm ²	
	L_e - Eff. Mag. Path Length	19.612 cm	
	V_e - Eff. Core Volume	34.8 cm ³	
	WA - Min. Eff. Window Area	18.1 cm ²	
	sa - Surface Area	184 cm ²	
	mlt - mean length per turn	8.29 cm	
Inductance	μ_i (reference)	26	
	A_L value (nominal)	30 nH/N ²	
	Test Winding	N=120, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.94 V	
	AL tolerance	±8%	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B_{pk} 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_{pk}	300 G	
	frequency	100 kHz	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and:		
	$a=1.000E-02$, $b=9.210E-08$, $c=1.912$, $d=0.000$		
	H_{DC}	200 Oe	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
Winding Table	Package Quantity	45 Pcs/Box	

Winding Table	Wire Size	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
	Single Layer	Turns	38	48	60	75	95	118	148	185	230	287	358
		Rdc(Ω)	6.5 m	13.0 m	25.9 m	51.4 m	103.6 m	204.6 m	408.2 m	811.5 m	1.6	3.2	6.3
Full Winding	Turns	95	146	227	351	543	840	1,300	2,012	3,114	4,820	7,459	
	Rdc(Ω)	16.2 m	39.6 m	97.9 m	240.7 m	592.1 m	1.5	3.6	8.8	21.7	53.5	131.6	

