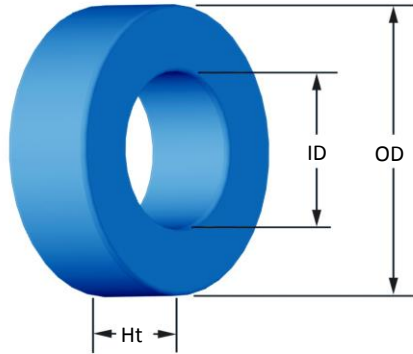




Part Number: **FS-306040-2**

Revision 20191114 - Generated 2019-Nov-14



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

OD	(nom. - bare core) (max.)	77.80 mm 78.94 mm	3.063 in 3.108 in
ID	(nom. - bare core) (min.)	39.34 mm 38.34 mm	1.549 in 1.509 in
HT	(nom. - bare core) (max.)	25.85 mm 26.85 mm	1.018 in 1.057 in
Mass	(approximate)	540 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	4.78 cm ²	
	L _e - Eff. Mag. Path Length	17 cm	
	V _e - Eff. Core Volume	81.5 cm ³	
	WA - Min. Eff. Window Area	11.5 cm ²	
	sa - Surface Area	211 cm ²	
	mlt - mean length per turn	11.3 cm	
Inductance	μ _i (reference)	40	
	A _l value (nominal)	135 nH/N ²	
	Test Winding	N=120, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	2.5 V	
	AL tolerance	±8%	
Core Loss	Core Loss(mW/cm ³): $\frac{f}{Bpk^3} + \frac{f}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$		
	where B _{pk} 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 _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	780 mW/cm ³	
Core Loss (maximum)	897 mW/cm ³		
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=6.314E-08, c=2.151, d=0.000		
	H _{DC}	200 Oe	
	Percent Initial Perm.(nom.)	64.0%	
Percent Initial Perm.(min.)	54.5%		
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	27 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	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
Full Winding	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	

