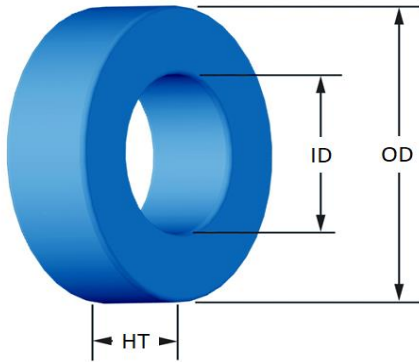




Part Number: FS-107060-2

Revision: 2023-Dec-06



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

	mm	in	
OD	(nom. - bare core) 26.92 (max.) 27.69	1.060 1.090	
ID	(nom. - bare core) 14.73 (min.) 14.10	0.580 0.555	
HT	(nom. - bare core) 8.64 (max.) 9.45	0.340 0.372	
Mass	(approximate) 21	grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.497	cm ²
	L_e - Eff. Mag. Path Length	6.35	cm
	V_e - Eff. Core Volume	3.16	cm ³
	W_A - Min. Eff. Window Area	1.56	cm ²
	s_a - Surface Area	26.3	cm ²
	m_{lt} - mean length per turn	3.95	cm
Inductance	μ_i (reference)	60	
	A_L value (nominal)	59	nH/N ²
	Test Winding	80 Turns	AWG# 26
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.18	V
AL tolerance	±8%		
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=3.903E+08$, $c=3.785E+06$, $d=5.229E-14$		
	B_{pk}	1000	G
	frequency	50 k	Hz
	Core Loss (nominal)	676	mW/cm ³
Core Loss (maximum)	778	mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.000E-02$, $b=1.949E-07$, $c=2.099$, $d=0.000$		
	H_{DC}	150	Oe
	Percent Initial Perm(nom.)	58.1	%
Percent Initial Perm(min.)	48.6	%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	630 Pcs/Box	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
Single Layer	Turns	12	16	20	26	33	41	52	66	82	103	129	
	Rdc(Ω)	1.6 m	3.3 m	6.5 m	13.5 m	27.3 m	53.9 m	108.8 m	219.6 m	433.9 m	866.9 m	1.7	
Full Winding	Turns	13	20	30	47	73	112	174	269	417	645	998	
	Rdc(Ω)	1.7 m	4.1 m	9.8 m	24.4 m	60.4 m	147.3 m	364.0 m	895.1 m	2.2	5.4	13.4	

