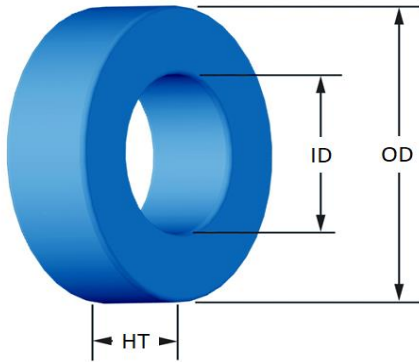




Part Number: **FS-226060-2**

Revision: 2023-Dec-06



(If coated, Max./Min. includes coating)		mm	in
OD	(nom. - bare core)	57.15	2.250
	(max.)	58.04	2.285
ID	(nom. - bare core)	26.39	1.039
	(min.)	25.58	1.007
HT	(nom. - bare core)	15.24	0.600
	(max.)	16.13	0.635
Mass	(approximate)	190	grams
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	2.29	cm ²
	L_e - Eff. Mag. Path Length	12.506	cm
	V_e - Eff. Core Volume	28.6	cm ³
	W_A - Min. Eff. Window Area	5.14	cm ²
	s_a - Surface Area	105	cm ²
	m_{lt} - mean length per turn	7.75	cm
Inductance	μ_i (reference)	60	
	A_L value (nominal)	138	nH/N ²
	Test Winding	60 Turns	AWG# 18
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.61	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	60 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	19	24	31	39	49	62	78	97	122	152	190	
	Rdc(Ω)	3.0 m	6.1 m	12.5 m	25.0 m	50.0 m	100.5 m	201.2 m	397.8 m	795.8 m	1.6	3.1	
Full Winding	Turns	27	42	64	100	154	239	370	572	886	1,371	2,122	
	Rdc(Ω)	4.3 m	10.6 m	25.8 m	64.1 m	157.0 m	387.5 m	954.2 m	2.3	5.8	14.2	35.0	

