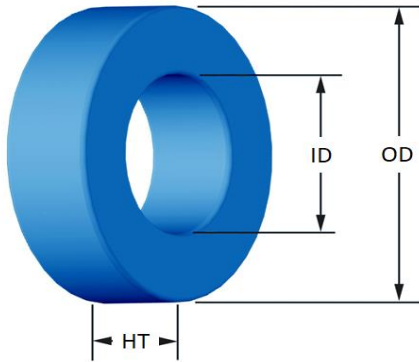




Part Number: **FS-292060-2**

Revision: 2023-Dec-18



(If coated, Max./Min. includes coating)		mm	in
OD	(nom. - bare core)	74.10	2.917
	(max.)	75.20	2.961
ID	(nom. - bare core)	45.30	1.783
	(min.)	44.10	1.736
HT	(nom. - bare core)	35.00	1.378
	(max.)	36.20	1.425
Mass	(approximate)	620	grams
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	4.94	cm ²
	L_e - Eff. Mag. Path Length	18.4	cm
	V_e - Eff. Core Volume	90.9	cm ³
	W_A - Min. Eff. Window Area	15.3	cm ²
	s_a - Surface Area	228	cm ²
	m_{lt} - mean length per turn	12.6	cm
Inductance	μ_i (reference)	60	
	A_L value (nominal)	206	nH/N ²
	Test Winding	100 Turns	AWG# 18
	Frequency	10k	Hz
	Voltage on Agilent 4284A	2.2	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	12 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	35	44	55	69	87	109	136	170	212	264	329	
	Rdc(Ω)	9.0 m	18.1 m	35.9 m	71.7 m	143.7 m	286.3 m	568.1 m	1.1	2.2	4.4	8.8	
Full Winding	Turns	80	124	192	296	459	710	1,099	1,701	2,633	4,075	6,307	
	Rdc(Ω)	20.7 m	50.9 m	125.4 m	307.4 m	758.0 m	1.9	4.6	11.3	27.8	68.5	168.5	

