

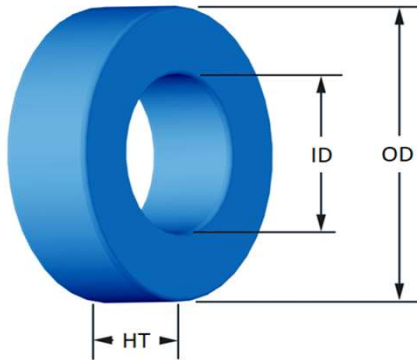


Part Number:

MS-268060-2

Revision:

2023-Dec-18



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

	mm	in
OD		
(nom. - bare core)	68.00	2.677
(max.)	69.42	2.733
ID		
(nom. - bare core)	36.00	1.417
(min.)	34.67	1.365
HT		
(nom. - bare core)	20.00	0.787
(max.)	21.41	0.843

Mass	(approximate)	290	grams
Magnetic Dimensions			
A_e - Eff. Mag. Cross Section	3.14		cm ²
L_e - Eff. Mag. Path Length	15.8		cm
V_e - Eff. Core Volume	49.7		cm ³
W_A - Min. Eff. Window Area	9.44		cm ²
s_a - Surface Area	159		cm ²
mlt - mean length per turn	9.49		cm
Inductance			
μ_i (reference)	60		
A_L value (nominal)	143		nH/N ²
Test Winding	100 Turns	AWG#	18
Frequency	10k		Hz
Voltage on Agilent 4284A	1.4		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: $a=7.890E+09$, $b=7.111E+08$, $c=8.980E+06$, $d=2.846E-14$			
B_{pk}	1000	G	
frequency	50 k	Hz	
Core Loss (nominal)	323	mW/cm ³	
Core Loss (maximum)	372	mW/cm ³	

DC Saturation			
$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$			
where H expressed in oersteds, and: $a=1.000E-02$, $b=2.151E-06$, $c=1.841$, $d=0.000$			
H_{dc}	100	Oe	
Percent Initial Perm(nom.)	49.2	%	
Percent Initial Perm(min.)	40.9	%	

Coating/Pkg			
Coating Type:	Blue Epoxy		
Voltage Breakdown (min.)	1000	Vrms	
Limit	0.1	mA, 5 s	
Package Quantity	24	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	27	34	43	54	68	85	106	133	166	207	258
	Full Winding	Turns	49	76	118	183	284	439	679	1,051	1,627	2,519	3,898
		Rdc(Ω)	5.3 m	10.6 m	21.2 m	42.4 m	84.9 m	168.8 m	334.7 m	667.9 m	1.3	2.6	5.2
		Rdc(Ω)	9.6 m	23.6 m	58.2 m	143.6 m	354.5 m	871.6 m	2.1	5.3	13.0	32.0	78.7

