

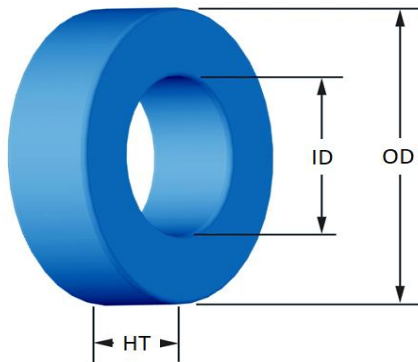


Part Number:

MS-268026-2

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)	250	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
	m_{lt} - mean length per turn	9.49	cm
Inductance	μ_i (reference)	26	
	A_L value (nominal)	65	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: $a=1.000E+06$, $b=4.969E+08$, $c=3.993E+06$, $d=2.867E-14$		
	B_{pk}	500	G
	frequency	100 k	Hz
	Core Loss (nominal)	295	mW/cm ³
	Core Loss (maximum)	339	mW/cm ³
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.000E-02$, $b=2.061E-07$, $c=1.995$, $d=0.000$		
	H_{dc}	200	Oe
	Percent Initial Perm(nom.)	55.4	%
	Percent Initial Perm(min.)	46.3	%
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
		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
	Full Winding	Turns	49	76	118	183	284	439	679	1,051	1,627	2,519	3,898
		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

