

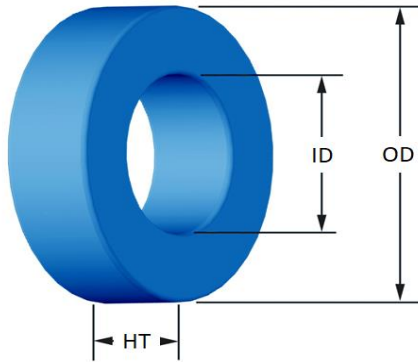


Part Number:

MS-135026-2

Revision:

2023-Dec-06



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

		mm	in
OD	(nom. - bare core)	34.29	1.350
	(max.)	35.10	1.382
ID	(nom. - bare core)	23.37	0.920
	(min.)	22.56	0.888
HT	(nom. - bare core)	8.89	0.350
	(max.)	9.83	0.387
Mass	(approximate)	21	grams
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.454	cm ²
	L _e - Eff. Mag. Path Length	8.95	cm
	V _e - Eff. Core Volume	4.06	cm ³
	W _A - Min. Eff. Window Area	4.00	cm ²
	s _a - Surface Area	41.4	cm ²
	mlt - mean length per turn	4.35	cm
Inductance	μ _i (reference)	26	
	A _L value (nominal)	16	nH/N ²
	Test Winding	90 Turns	AWG# 22
	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=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
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	350 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	16	21	27	34	43	54	68	85	107	134	167
	Full Winding	Rdc(Ω)	1.4 m	3.0 m	6.1 m	12.2 m	24.6 m	49.1 m	98.4 m	195.6 m	391.5 m	779.8 m	1.5
		Turns	21	32	50	78	120	186	288	445	689	1,066	1,651
		Rdc(Ω)	1.9 m	4.5 m	11.3 m	28.1 m	68.6 m	169.2 m	416.6 m	1.0	2.5	6.2	15.3

