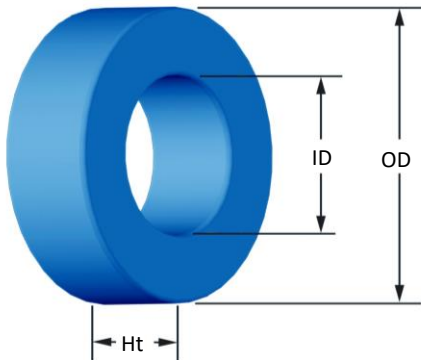




Part Number: MS-141026-2

Revision 2021-Dec-01 - Generated 2021-Dec-01



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

OD	(nom. - bare core) (max.)	35.81 mm 36.63 mm	1.410 in 1.442 in	
ID	(nom. - bare core) (min.)	22.35 mm 21.54 mm	0.880 in 0.848 in	
HT	(nom. - bare core) (max.)	10.46 mm 11.28 mm	0.412 in 0.444 in	
Mass	(approximate)	31 grams		
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.678 cm ²		
	L _e - Eff. Mag. Path Length	8.98 cm		
	V _e - Eff. Core Volume	6.09 cm ³		
	WA - Min. Eff. Window Area	3.64 cm ²		
	sa - Surface Area	45.6 cm ²		
Inductance	μ _i (reference)	26		
	A _L value (nominal)	24 nH/N ²		
	Test Winding	N=80, #22 AWG		
	Frequency	10 kHz		
	Voltage on Agilent 4284A	0.24 V		
Core Loss	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 kHz		
	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		
Coating/Pkg	Percent Initial Perm(nom.)	55.4%		
	Percent Initial Perm(min.)	46.3%		
	Coating Type:	Blue Epoxy		
	Voltage Breakdown (min.)	1000 Vrms		
Winding Table	Limit	0.1 mA, 5 s		
	Package Quantity	343 Pcs/Box		
	Wire Size	AWG	8	10
		mm	3.150	2.500
Single Layer	Turns	15	20	
	Rdc(Ω)	1.5 m	3.2 m	
Full Winding	Turns	19	30	
	Rdc(Ω)	1.9 m	4.8 m	

		8	10	12	14	16	18	20	22	24	26	28
	Turns	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Turns	15	20	25	32	41	52	65	81	102	128	159
	Rdc(Ω)	1.5 m	3.2 m	6.3 m	12.8 m	26.1 m	52.7 m	104.7 m	207.5 m	415.6 m	829.5 m	1.6
	Turns	19	30	46	71	109	169	262	406	628	972	1,505
	Rdc(Ω)	1.9 m	4.8 m	11.6 m	28.4 m	69.4 m	171.2 m	422.1 m	1.0	2.6	6.3	15.5

