

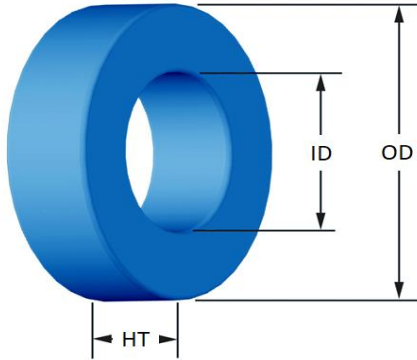


Part Number:

MS-141060-2

Revision:

2023-Dec-06



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

		mm	in
OD	(nom. - bare core)	35.81	1.410
	(max.)	36.63	1.442
ID	(nom. - bare core)	22.35	0.880
	(min.)	21.54	0.848
HT	(nom. - bare core)	10.46	0.412
	(max.)	11.28	0.444
Mass	(approximate)	35	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
	W_A - Min. Eff. Window Area	3.64	cm ²
	s_a - Surface Area	45.6	cm ²
	mlt - mean length per turn	4.84	cm
Inductance	μ_i (reference)	60	
	A_L value (nominal)	56	nH/N ²
	Test Winding	80 Turns	AWG# 22
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.24	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
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
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	315 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	15	20	25	32	41	52	65	81	102	128	159
	Full Winding	Turns	19	30	46	71	109	169	262	406	628	972	1,505
		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
		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

