

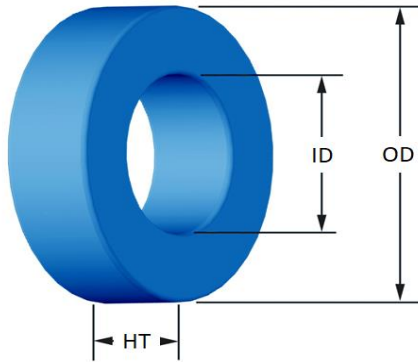


Part Number:

MS-141040-2

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

Magnetic Dimensions	Mass (approximate)	33	grams
	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
Inductance	mlt - mean length per turn	4.84	cm
	μ _i (reference)	40	
	A _L value (nominal)	37	nH/N ²
	Test Winding	80 Turns	AWG# 22
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.24	V
Core Loss	AL tolerance	±8%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and:		
	a=1.000E+06, b=6.961E+08, c=5.397E+06, d=4.127E-14		
	B _{pk}	1000	G
	frequency	50 k	Hz
DC Saturation	Core Loss (nominal)	441	mW/cm ³
	Core Loss (maximum)	507	mW/cm ³
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and:		
	a=1.000E-02, b=2.655E-06, c=1.703, d=0.000		
	H _{DC}	100	Oe
Coating/Pkg	Percent Initial Perm(nom.)	59.6	%
	Percent Initial Perm(min.)	52.0	%
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000	Vrms
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	315 Pcs/Box	
	Wire Size	AWG	8
		mm	3.150
Single Layer	Turns	15	20
	Rdc(Ω)	1.5 m	3.2 m
	Turns	19	30
	Rdc(Ω)	1.9 m	4.8 m
Full Winding	Turns	25	32
	Rdc(Ω)	6.3 m	12.8 m
	Turns	46	71
	Rdc(Ω)	11.6 m	28.4 m
	Turns	109	169
	Rdc(Ω)	69.4 m	171.2 m
	Turns	262	406
	Rdc(Ω)	422.1 m	1.0
	Turns	406	628
	Rdc(Ω)	1.0	2.6
	Turns	628	972
	Rdc(Ω)	2.6	6.3
	Turns	972	1,505
	Rdc(Ω)	6.3	15.5
	Turns	1,505	1.6
	Rdc(Ω)	15.5	1.6

