

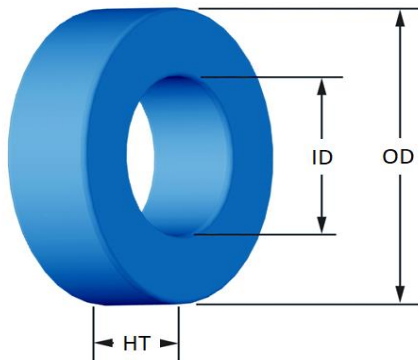


Part Number:

MS-106060-2

Revision:

2023-Dec-06



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

		mm	in
OD	(nom. - bare core)	26.92	1.060
	(max.)	27.69	1.090
ID	(nom. - bare core)	14.73	0.580
	(min.)	14.10	0.555
HT	(nom. - bare core)	11.18	0.440
	(max.)	11.99	0.472

Mass	(approximate)	24	grams
	A _e - Eff. Mag. Cross Section	0.654	cm ²
	L _e - Eff. Mag. Path Length	6.35	cm
	V _e - Eff. Core Volume	4.15	cm ³
	WA - Min. Eff. Window Area	1.56	cm ²
	sa - Surface Area	28.8	cm ²
Magnetic Dimensions	mlt - mean length per turn	4.46	cm
	μ _i (reference)	60	
	A _L value (nominal)	75	nH/N ²
	Test Winding	80 Turns	AWG# 26
	Frequency	10k	Hz
	Voltage on Agilent 4284A	0.23	V
Inductance	AL tolerance	±8%	

Inductance	μi (reference)	60		
	AL value (nominal)	75	nH/N ²	
	Test Winding	80	Turns	AWG# 26
	Frequency	10k	Hz	
	Voltage on Agilent 4284A	0.23	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
Core Loss (maximum)	372	mW/cm ³	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	12	16	20	26	33	41	52	66	82	103	129
		Rdc(Ω)	1.8 m	3.7 m	7.4 m	15.3 m	30.8 m	60.9 m	122.8 m	247.8 m	489.7 m	978.2 m	1.9
	Full Winding	Turns	13	20	30	47	73	112	174	269	417	645	998
Winding Table	Full Winding	Rdc(Ω)	1.9 m	4.6 m	11.1 m	27.6 m	68.1 m	166.3 m	410.8 m	1.0	2.5	6.1	15.1

